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Scientific and Technical Information Center

SEARCH REQUEST FORM

10/19/06

Requester's Full Name: JANE ZARA Examiner #: 7757 Date: 5/24/06  
Art Unit: 1635 Phone Number: 2-0765 Serial Number: 871200632  
Location (Bldg/Room#): 2d18 (Mailbox #): 2C18 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Modn ab HIF 1 L

Inventors (please provide full names): D T WARD et al.

Earliest Priority Date: 11/21/03

Search Topic:

*Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.*

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

20NA

Please Search Seq ID No: 446

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Length limits betw 18 - 50 NTS  
12 - 50 NTS

{ To To Homology or greater  
Score over Length search

No Interference to losses

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\*\*\*\*\*

STAFF USE ONLY

Searcher: JAN

Type of Search

Vendors and cost where applicable

Searcher Phone #: 22504

NA Sequence (#)

STN  Dialog

Searcher Location:

AA Sequence (#)

Questel/Orbit  Lexis/Nexis

Date Searcher Picked Up: 6/16/06

Structure (#)

Westlaw  WWW/Internet

Date Completed: 6/13/06

Bibliographic

In-house sequence systems

\*Searcher Prep & Review Time: 15

Fulltext

Commercial  Oligomer  Score/Length  
 Interference  SPDI  Encode/Transl

Online Time: +45

Other

Other (specify)

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Copyright (c) 1993 - 2006 Biocceleration Ltd.  
 Om nucleic - nucleic search, using sw model  
 Run on: June 13, 2006, 15:51:49 ; search time 0.001 Seconds  
 (without alignments)  
 12.960 Million cell updates/sec

Title: US-10-719-370a-446  
 perfect score: 20  
 Sequence: 1 cctcattggcacatggatga 20

Scoring table: IDENTITY-NUC  
 Gapop 10.0 , Gapext 0.5

Searched: 25 seqs, 324 residues

Total number of hits satisfying chosen parameters: 50

Minimum DB seq length: 12

Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 25 summaries

Database : us-10-719-370a-446.s1.rn14:  
 Pred. No. is the number of results predicted by chance to have a  
 score greater than or equal to the score of the result being printed,  
 and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	14.8	74.0	19	1 US-08-846-020A-22	Sequence 22, Appl
2	14.8	74.0	19	1 US-08-846-020A-22	Sequence 22, Appl
c	3	12.2	61.0	17 1 US-08-866-108A-7612	Sequence 7612, Ap
c	4	10.8	54.0	15 1 US-09-081-646-513	Sequence 513, Ap
c	6	9.4	47.0	13 1 US-09-374-704-12	Sequence 13, Appl
c	7	9	45.0	12 1 US-08-441-887A-200	Sequence 200, Appl
c	8	8.4	42.0	12 1 US-08-930-35-10	Sequence 10, Appl
c	9	8.4	42.0	12 1 US-07-973-431B-3	Sequence 3, Appl
c	10	8.4	42.0	12 1 US-08-122-433-26	Sequence 26, Appl
c	11	8.4	42.0	12 1 US-08-623-81-24	Sequence 24, Appl
c	12	8.4	42.0	12 1 US-08-480-0208-10	Sequence 10, Appl
c	13	8.4	42.0	12 1 US-08-910-618-10	Sequence 2, Appl
c	14	8.4	42.0	12 1 US-09-105-515-2	RESULT 2
c	15	8.4	42.0	12 1 US-08-910-322-10	US-09-617-871-22
c	16	8.4	42.0	12 1 US-08-679-493A-68	Sequence 68, Appl
c	17	8.4	42.0	12 1 US-08-484-391-10	Sequence 22, Appl
c	18	8.4	42.0	12 1 US-09-340-861-24	Sequence 10, Appl
c	19	8.4	42.0	12 1 US-09-634-262-24	Sequence 24, Appl
c	20	8.4	42.0	12 1 US-09-748-44-2	Sequence 2, Appl
c	21	8.4	42.0	12 1 US-09-384-472-10	Sequence 10, Appl
c	22	8.4	42.0	12 1 US-09-833-370-54	Sequence 54, Appl
c	23	8.4	42.0	12 1 US-09-793-146-38	Sequence 38, Appl
c	24	8.4	42.0	12 1 US-09-793-146-48	Sequence 48, Appl
c	25	8.4	42.0	12 1 US-09-793-146-49	Sequence 49, Appl

#### ALIGNMENTS

RESULT 1  
 US-08-846-020A-22  
 ; Sequence 22, Application US/08846020A

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; ZIP: 02109-2891
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/617,871
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/846,020
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Jarrell Ph.D., Brenda H.
; REGISTRATION NUMBER: 39-223
; REFERENCE/DOCKET NUMBER: 0092662-0012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248 4000
; TELEFAX: (617) 248-5000
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "primer"
; IMMEDIATE SOURCE:
; CLONE: Exon 4 sense primer
; US-09-617-871-22

RESULT 3
US-09-866-108A-7612/C
; Sequence 7612, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wenheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AECOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263-6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665

Query Match 74.0%; Score 14.8; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 0.91; 0;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 2 CTCATGGTCACATGGATG 19
Db 2 CTCATGTCAGATGGATG 19

RESULT 3
US-09-866-108A-7612/C
; Sequence 7612, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wenheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AECOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263-6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665

Query Match 61.0%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.8; 0;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1 CCTCATGGTCACATGG 17
Db 17 CCTCAAGGTACAGGTA 1

RESULT 4
US-09-881-646-513
; Sequence 513, Application US/09081646
; Patent No. 6333152
; GENERAL INFORMATION:
; APPLICANT: Kinsler, Kenneth
; APPLICANT: Vogelstein, Bert
; APPLICANT: Zhang, Lin
; APPLICANT: Zhou, Wei
; TITLE OF INVENTION: Gene Expression Profiles in No. 6333152 and
; CURRENT FILING DATE: 1998-05-20
; CURRENT APPLICATION NUMBER: 01107-74664
; EARLIER FILING DATE: 1997-05-21
; NUMBER OF SEQ ID NOS: 871
; SOFTWARE: Fast-SEQ for Windows Version 3.0
; SEQ ID NO: 513
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-081-646-513

Query Match 54.0%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 4.4; 0;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 4 CTCATGGTCACATGGA 17
Db 1 CTCATGGTCACATGGA 14

RESULT 5
US-09-374-704-12
; Sequence 12, Application US/09374704
; Patent No. 6988240
; GENERAL INFORMATION:
; APPLICANT: DERVAN, PETER B.
; APPLICANT: BAIRD, ELDON J.
; TITLE OF INVENTION: INHIBITION OF MAJOR GROOVE DNA BINDING
; TITLE OF INVENTION: PROTEINS BY MODIFIED POLYAMIDES
; FILE REFERENCE: 238 298
; CURRENT APPLICATION NUMBER: US/09/374,704
; CURRENT FILING DATE: 1999-04-12
; EARLIER APPLICATION NUMBER: PCT/US98/02684
; EARLIER FILING DATE: 1998-02-13
; EARLIER APPLICATION NUMBER: PCT/US97/03332
; EARLIER FILING DATE: 1997-02-20
; EARLIER APPLICATION NUMBER: PCT/US97/12722
; EARLIER FILING DATE: 1997-02-20
; EARLIER APPLICATION NUMBER: PCT/US97/12722

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; OTHER INFORMATION: GCN4 binding molecule  
 ; US-09-374-704-13  
 ; Sequence 200, Application US/08441887A  
 ; Patent No. 5837832  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Chee, Mark  
 ; APPLICANT: Cronin, Maureen T.  
 ; APPLICANT: Fodor, Stephen P.A.  
 ; APPLICANT: Huang, Xiaohua X.  
 ; APPLICANT: Hubbell, Earl A.  
 ; APPLICANT: Liphshutz, Robert J.  
 ; APPLICANT: Loban, Peter E.  
 ; APPLICANT: Morris, Macdonald S.  
 ; APPLICANT: Sheldon, Edward L.  
 ; TITLE OF INVENTION: Arrays of Nucleic Acid Probes on  
 ; NUMBER OF SEQUENCES: 360  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEES: Townsend and Townsend and Crew LLP  
 ; STREET: Two Embarcadero Center, 8th Floor  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94111  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/441,887A  
 ; FILING DATE: 16-MAY-1995  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/143,312  
 ; FILING DATE: 26-OCT-1993  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/082,937  
 ; FILING DATE: 25-JUN-1993  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Lieberhuetz, Joseph O.  
 ; REGISTRATION NUMBER: 37,505  
 ; REFERENCE/DOCKET NUMBER: 018547-004160US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 650-326-2400  
 ; FAX: 650-326-2422  
 ; INFORMATION FOR SEQ ID NO: 200:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 12 base Pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: DNA (probe)  
 ; US-08-441-887A-200/C  
 ; Query Match 47.0%; Score 9.4; DB 1; Length 13;  
 ; Best Local Similarity 90.9%; Pred. No. 6.6; 0; Mismatches 1; Indels 0; Gaps 0;  
 ; Matches 10; Conservative 0;  
 Qy 3 TCGTGGCACA 13  
 Db 11 TCGTGGCATA 1

RESULT 6  
 US-09-374-704-13/c  
 Sequence 13, Application US/09374704  
 ; Patent No. 658240  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dervan, Peter B.  
 ; APPLICANT: BAIRD, ELDON J.  
 ; TITLE OF INVENTION: INHIBITION OF MAJOR GROOVE DNA BINDING  
 ; TITLE OF INVENTION: PROTEINS BY MODIFIED POLYAMIDES  
 ; FILE REFERENCE: 238/298  
 ; CURRENT APPLICATION NUMBER: US/09/374,704  
 ; CURRENT FILING DATE: 1999-08-12  
 ; EARLIER APPLICATION NUMBER: PCT/US98/02684  
 ; EARLIER FILING DATE: 1998-03-13  
 ; EARLIER APPLICATION NUMBER: PCT/US97/03332  
 ; EARLIER FILING DATE: 1997-02-20  
 ; EARLIER APPLICATION NUMBER: PCT/US97/12722  
 ; EARLIER FILING DATE: 1997-07-21  
 ; EARLIER APPLICATION NUMBER: 60/038,384  
 ; EARLIER FILING DATE: 1997-02-14  
 ; EARLIER APPLICATION NUMBER: 60/023,309  
 ; EARLIER FILING DATE: 1996-07-31  
 ; EARLIER APPLICATION NUMBER: 60/024,374  
 ; EARLIER FILING DATE: 1996-08-01  
 ; EARLIER APPLICATION NUMBER: 60/026,713  
 ; EARLIER FILING DATE: 1996-03-25  
 ; EARLIER APPLICATION NUMBER: 08/853,522  
 ; EARLIER FILING DATE: 1997-05-08  
 ; EARLIER APPLICATION NUMBER: 08/837,524  
 ; EARLIER FILING DATE: 1997-04-21  
 ; EARLIER APPLICATION NUMBER: 08/607,078  
 ; EARLIER FILING DATE: 1996-02-26  
 ; NUMBER OF SEQ ID NOS: 20  
 ; SOFTWARE: Fast-SEQ for Windows Version 3.0  
 ; SEQ ID NO 13  
 ; LENGTH: 13  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:

Db 11 |||CATGGATGA 3

RESULT 8  
US-00-335-10/c  
Sequence 10, Application US/08030335  
; Patent No. 5,91073  
; GENERAL INFORMATION:  
; APPLICANT: No. 5491073eborn, Matheus H  
; TITLE OF INVENTION: Cloning Of Chicken Anaemia DNA  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooper & Dunham  
; STREET: 30 Rockefeller Plaza  
; CITY: New York, New York  
; STATE: New York, New York  
; COUNTRY: USA  
; ZIP: 10112  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/030,335  
; FILING DATE: 08-MAR-1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Moran, Thomas F  
; REGISTRATION NUMBER: 16,579  
; REFERENCE/DOCKET NUMBER: 43276  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)-977-9850  
; TELEFAX: 422523 COOP UI  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear (genomic)  
; MOLECULE TYPE: DNA (genomic)  
; US-08-030-335-10

Query Match 42.0%; Score 8.4; DB 1; Length 12;  
Best Local Similarity 90.0%; Pred. No. 9.2; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 GGTCACTGG 16  
Db 12 GGTCACTGG 3

RESULT 9  
US-07-973-431B-3/c  
Sequence 3, Application US/07973431B  
; Patent No. 5,63214  
; GENERAL INFORMATION:  
; APPLICANT: Lu, Yincheng  
; TITLE OF INVENTION: OLIGODEOXYNUCLEOTIDES AND  
; TITLE OF INVENTION: OLIGONUCLEOTIDES USEFUL AS DECOYS FOR PROTEINS WHICH  
; TITLE OF INVENTION: SELECTIVELY BIND TO DEFINED DNA SEQUENCES  
; NUMBER OF SEQUENCES: 47  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: PRETTY, SCHROEDER, BRUEGEMANN & CLARK  
; STREET: 444 South Flower Street, Suite 2000  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: USA  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/122,433  
; FILING DATE: 22-SEP-1993  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/687,337  
; FILING DATE: 18-APR-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Reiter, Stephen E.  
; REGISTRATION NUMBER: 31,192  
; REFERENCE/DOCKET NUMBER: P31 9308  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-546-9395  
; TELEFAX: 619-546-9392  
; INFORMATION FOR SEQ ID NO: 26:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12 base pairs

RESULT 9  
US-07-973-431B-3/c  
Sequence 3, Application US/07973431B  
; Patent No. 5,63214  
; GENERAL INFORMATION:  
; APPLICANT: Haseltine, William A  
; TITLE OF INVENTION: Y11 Protein, Gene, And Uses Thereof  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: David G. Conlin, Dike, Bronstein,  
; ADDRESSEE: Robert B & Cushman  
; STREET: 130 Water Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:

Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 9.2; Pred. No. 9.2;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 7 GTGTCACATGG 16  
 Db 12 GGTGCACTGG 3

RESULT 11  
 US-08-623-891-24/C  
 ; Sequence 24, Application US/08623891  
 ; Patent No. 5795778  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kenneth G. Draper  
 ; TITLE OF INVENTION: METHOD AND REAGENT FOR  
 ; INHIBITING HERPES SIMPLEX  
 ; TITLE OF INVENTION: VIRUS REPLICATION  
 ; NUMBER OF SEQUENCES: 115  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 611 West Sixth Street  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 90017  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: IBM P.C. DOS (Version 5.0)  
 ; SOFTWARE: WordPerfect (Version 5.1)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/238, 200  
 ; FILING DATE: 07/07/987, 133  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/238, 200  
 ; FILING DATE: 07/07/987, 133  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard J.  
 ; REGISTRATION NUMBER: 32,327  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 24:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 12  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-623-891-24

Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 9.2; Pred. No. 9.2;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 7 GTGTCACATGG 16  
 Db 12 GGTGCACTGG 3

RESULT 12  
 US-08-480-020B-10/C  
 ; Sequence 10, Application US/08480020B  
 ; Patent No. 5932476  
 ; GENERAL INFORMATION:  
 ; APPLICANT: DE BOER, GERDEN F.  
 ; TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA  
 ; NUMBER OF SEQUENCES: 38  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: RAB-VENTER LAW GROUP  
 ; STREET: 260 SHERIDAN AVENUE, SUITE 400  
 ; CITY: PALO ALTO  
 ; STATE: CALIFORNIA  
 ; COUNTRY: UNITED STATES OF AMERICA  
 ; ZIP: 94306  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent in Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/480,020B  
 ; FILING DATE: 07-JUN-1995  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/030, 335  
 ; FILING DATE: 08-MAR-1993  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: WO PCT/NL91/00165  
 ; FILING DATE: 12-SEP-1990  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: NL 9002008  
 ; FILING DATE: 12-SEP-1990  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: KUNG, VIOLA  
 ; REGISTRATION NUMBER: P41, 131  
 ; REFERENCE/DOCKET NUMBER: VEOC. 002.02US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (650) 328-4400  
 ; TELEFAX: (650) 328-4477  
 ; INFORMATION FOR SEQ ID NO: 10:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 12 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: DNA (genomic)  
 ; US-08-480-020B-10

Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 9.2; Pred. No. 9.2;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 7 GTGTCACATGG 16  
 Db 12 GGTGCACTGG 3

RESULT 13  
 US-08-910-618-10/C  
 ; Sequence 10, Application US/08910618  
 ; Patent No. 5959424  
 ; GENERAL INFORMATION:  
 ; APPLICANT: DE BOER, GERDEN F.  
 ; TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA  
 ; NUMBER OF SEQUENCES: 28  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: RAE-VENTER LAW GROUP  
 ; STREET: 260 SHERIDAN AVENUE, SUITE 400

CITY: PALO ALTO  
 STATE: CALIFORNIA  
 COUNTRY: UNITED STATES OF AMERICA  
 ZIP: 94306

COMPUTER READABLE FORM:  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/910,618  
 FILING DATE: 13-AUG-1997  
 CLASSIFICATION: 424  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/484,939  
 FILING DATE: 07-JUN-1995  
 APPLICATION NUMBER: US 08/030,335  
 FILING DATE: 08-MAR-1993

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: WO PCT/NL91/00165  
 FILING DATE: 12-SEP-1990

APPLICATION NUMBER: NL 9002008  
 FILING DATE: 12-SEP-1990

ATTORNEY/AGENT INFORMATION:  
 NAME: Rae-Venter, Barbara  
 REGISTRATION NUMBER: 32,750  
 REFERENCE/DOCKET NUMBER: VEOC.002.01US

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (650)328-4400  
 TELEFAX: (650)328-4477

INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 12 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)

US-08-910-618-10

Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90%; Pred. No. 9.2;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0;  
 Gaps 0;

Qy 7 GGTCACTGG 16  
 Db 12 GGTCACTGG 3

RESULT 14  
 US-09-105-515-2/C

Sequence 2, Application US/0910515

Patent No. 6113913

GENERAL INFORMATION:

APPLICANT: BROUCH, DOUGLAS E.  
 TITLE OF INVENTION: RECOMBINANT ADENOVIRUS  
 NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: LEVIG, VOIT & MAYER, LTD.  
 STREET: TWO PRUDENTIAL PLAZA, SUITE 4900  
 CITY: CHICAGO  
 STATE: IL  
 ZIP: 60601-6780

COMPUTER READABLE FORM:  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/910,322  
 FILING DATE:  
 CLASSIFICATION:  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: 08/484,939  
 FILING DATE:  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: WO PCT/NL91/00165  
 FILING DATE: 12-SEP-1990  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: NL 9002008  
 FILING DATE: 12-SEP-1990  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Rae-Venter, Barbara  
 REGISTRATION NUMBER: 32,750  
 REFERENCE/DOCKET NUMBER: VEOC.002.01US

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (650)328-4400  
 TELEFAX: (650)328-4477

INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 12 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)

US-09-105-515-2

Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90%; Pred. No. 9.2;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0;  
 Gaps 0;

Qy 7 GGTCACTGG 16  
 Db 12 GGTCACTGG 3

RESULT 15  
 US-08-910-322-10/C

Sequence 10, Application US/08910322

PATENT NO. 6238669

GENERAL INFORMATION:

APPLICANT: NOTEBORN, MATTHEW H.M.  
 APPLICANT: DE BOER, GERDEN F.  
 TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA  
 NUMBER OF SEQUENCES: 28

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: RAE-VENTER LAW GROUP  
 STREET: 260 SHERIDAN AVENUE, SUITE 400  
 CITY: PALO ALTO  
 STATE: CALIFORNIA  
 COUNTRY: UNITED STATES OF AMERICA  
 ZIP: 94306

COMPUTER READABLE FORM:  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/910,322  
 FILING DATE:  
 CLASSIFICATION:  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: 08/484,939  
 FILING DATE:  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: WO PCT/NL91/00165  
 FILING DATE: 12-SEP-1990  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: NL 9002008  
 FILING DATE: 12-SEP-1990  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Rae-Venter, Barbara  
 REGISTRATION NUMBER: 32,750  
 REFERENCE/DOCKET NUMBER: VEOC.002.01US

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (650)328-4400  
 TELEFAX: (650)328-4477

INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 12 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)

US-08-910-322-10

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: NL 9002008

; FILING DATE: 12-SEP-1990

; ATTORNEY/AGENT INFORMATION:

; NAME: Rae-Venter, Barbara

; REGISTRATION NUMBER: 32,750

; REFERENCE/DOCKET NUMBER: VRC-002.01US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (650)328-4400

; TELEFAX: (650)328-4477

; INFORMATION FOR SEQ ID NO: 10:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 12 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: Single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

; US-08-484-939A-10

; Query Match

; Best Local Similarity

; Score 8.4; DB 1;

; Length 12;

; Matches

; 9; Pred. No. 9.2;

; Mismatches

; 1; Indels

; 0; Gaps

; 0;

; SEQ ID NO: 10

; LENGTH: 12

; TYPE: RNA

; ORGANISM: Human immunodeficiency virus type 1

; US-08-679-493A-68

; Sequence 68, Application US/08679493A

; Patent No. 6303295

; GENERAL INFORMATION:

; APPLICANT: Taylor, Ethan W.

; TITLE OF INVENTION: SELENOPROTEINS, CODING SEQUENCES AND METHODS

; FILE REFERENCE: 55-95

; CURRENT APPLICATION NUMBER: US/08/679,493A

; CURRENT FILING DATE: 1996-07-12

; PRIORITY APPLICATION NUMBER: 60/001203

; PRIORITY FILING DATE: 1995-07-14

; PRIORITY APPLICATION NUMBER: 60/003,112

; PRIORITY FILING DATE: 1995-09-01

; NUMBER OF SEQ ID NOS: 216

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO: 68

; LENGTH: 12

; TYPE: RNA

; ORGANISM: Human immunodeficiency virus type 1

; US-08-484-939A-10/C

; Sequence 10, Application US/08484939A

; Patent No. 6319693

; GENERAL INFORMATION:

; APPLICANT: NOTBORN, MATHEUS H. M.

; TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA

; NUMBER OF SEQUENCES: 28

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: RAB-VENTER LAW GROUP

; STREET: 260 SHERIDAN AVENUE, SUITE 400

; CITY: PALO ALTO

; STATE: CALIFORNIA

; COUNTRY: UNITED STATES OF AMERICA

; ZIP: 94306

; COMPUTER READABLE FORM:

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WordPerfect (Version 5.1)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/484,939A

; FILING DATE: 07-JUN-1995

; CLASSIFICATION: 424

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 08/030,335

; FILING DATE: 08-MAR-1993

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: WO PCT/NL91/00165

; FILING DATE: 12-SEP-1990

; LENGTH: 12

; TYPE: nucleic acid

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; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-340-861-24

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3 TCA TGGTCA C 12
Db 12 TCA TGGCCAC 3

RESULT 19
; US-09-634-262-24/C
; Sequence 24, Application US/09634262
; Patent No. 6440719

; GENERAL INFORMATION:
; APPLICANT: Brough, Douglas B.
; APPLICANT: Kováčik, Imre
; TITLE OF INVENTION: Recombinant Cell Line
; FILE REFERENCE: 207952
; CURRENT APPLICATION NUMBER: US/09/748, 044
; CURRENT FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: PCT/US99/14333
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: US 09/105, 515
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO: 2
; LENGTH: 12
; ORGANISM: Adenovirus type 5
; TYPE: DNA

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 7 GGT CAC TGG 16
Db 12 GGT CAC TGG 3

RESULT 21
; US-09-384-472-10/C
; Sequence 10, Application US/09384472
; Patent No. 6509446

; GENERAL INFORMATION:
; APPLICANT: NOTEBORN, MATTHEW H.M.
; APPLICANT: DE BOER, GERDEN F.
; TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RAE-VENTER LAW GROUP
; STREET: 260 SHERIDAN AVENUE, SUITE 400
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 94306

; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #11.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/384, 472
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/484, 939
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: NL 9002008
; FILING DATE: 12-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/NL91/00165
; FILING DATE: 12-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: NL 9002008
; FILING DATE: 12-SEP-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Rae Venter, Barbara
; REGISTRATION NUMBER: 32,750
; REFERENCE DOCKET NUMBER: VB0C.002.01US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 328-4400
; TELEFAX: (650) 328-4477

RESULT 20
; US-09-748-044-2/C

```

INFORMATION FOR SEQ ID NO: 10:  
; SOURCE CHARACTERISTICS:  
; LENGTH: 12 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; US-09-384-472-10

Query Match	Score	DB	1;	Length	12;
Best Local Similarity	90.0%	Pred. No.	9.2;		
Matches	9;	Conservative	0;	Mismatches	1;
Qy	7	GGTCACATGG	16	Indels	0;
Db	12	GGTCACATGG	3	Gaps	0;

RESULT 22  
US-09-793-370-54  
; Sequence 54, Application US/09835370  
; Patent No. 677544

; GENERAL INFORMATION:  
; APPLICANT: UHLMANN, EUGEN  
; APPLICANT: BREIPOHL, GERHARD  
; APPLICANT: WILL, DAVID W  
; APPLICANT: BREIPOHL, GERHARD

; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES AND AGENTS AND  
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM

; FILE REFERENCE: 02481-1742 SQUENCE LISTING  
; CURRENT APPLICATION NUMBER: US/09/835,370  
; CURRENT FILING DATE: 2001-04-17  
; NUMBER OF SEQ ID NOS: 64  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 54

; LENGTH: 12  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: nucleotide  
; OTHER INFORMATION: base sequence of RNA derivatives that bind to  
; OTHER INFORMATION: viral and cellular targets

Query Match	Score	DB	1;	Length	12;
Best Local Similarity	90.0%	Pred. No.	9.2;		
Matches	9;	Conservative	0;	Mismatches	1;
Qy	1	CCCTCATGTC	10	Indels	0;
Db	2	CATCATGGTC	11	Gaps	0;

RESULT 23  
US-09-793-146-38  
; Sequence 38, Application US/09793146  
; Patent No. 6919441

; GENERAL INFORMATION:  
; APPLICANT: UHLMANN, EUGEN  
; APPLICANT: BREIPOHL, GERHARD

; TITLE OF INVENTION: POLYAMIDE-OLIGONUCLEOTIDE DERIVATIVES, THEIR  
; TITLE OF INVENTION: PREPARATION AND USE  
; FILE REFERENCE: 02481-1437-02  
; CURRENT APPLICATION NUMBER: US/09/793,146  
; CURRENT FILING DATE: 2001-03-27  
; PRIOR APPLICATION NUMBER: P 44 08 528.1  
; PRIOR FILING DATE: 1994-03-14  
; PRIOR APPLICATION NUMBER: 08/402,838  
; PRIOR FILING DATE: 1995-03-13  
; NUMBER OF SEQ ID NOS: 70  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 38  
; LENGTH: 12  
; TYPE: DNA

RESULT 24  
US-09-793-146-48  
; Sequence 48, Application US/09793146  
; Patent No. 6919441

; GENERAL INFORMATION:  
; APPLICANT: UHLMANN, EUGEN  
; APPLICANT: BREIPOHL, GERHARD  
; TITLE OF INVENTION: POLYAMIDE-OLIGONUCLEOTIDE DERIVATIVES, THEIR  
; TITLE OF INVENTION: PREPARATION AND USE  
; FILE REFERENCE: 02481-1437-02  
; CURRENT FILING DATE: 2001-02-27  
; PRIOR APPLICATION NUMBER: P 44 08 528.1  
; PRIOR FILING DATE: 1994-03-14  
; PRIOR APPLICATION NUMBER: 08/402,838  
; PRIOR FILING DATE: 1995-03-13  
; NUMBER OF SEQ ID NOS: 70  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 48  
; LENGTH: 12  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic RNA

Query Match	Score	DB	1;	Length	12;
Best Local Similarity	90.0%	Pred. No.	9.2;		
Matches	9;	Conservative	0;	Mismatches	1;
Qy	1	CCCTCATGTC	10	Indels	0;
Db	2	CATCATGGTC	11	Gaps	0;

RESULT 25  
US-09-793-146-49/C  
; Sequence 49, Application US/09793146  
; Patent No. 6919441

; GENERAL INFORMATION:  
; APPLICANT: UHLMANN, EUGEN  
; APPLICANT: BREIPOHL, GERHARD

; TITLE OF INVENTION: POLYAMIDE-OLIGONUCLEOTIDE DERIVATIVES, THEIR  
; TITLE OF INVENTION: PREPARATION AND USE  
; FILE REFERENCE: 02481-1437-02  
; CURRENT FILING DATE: 2001-02-27  
; PRIOR APPLICATION NUMBER: P 44 08 528.1  
; PRIOR FILING DATE: 1994-03-14  
; PRIOR APPLICATION NUMBER: 08/402,838  
; PRIOR FILING DATE: 1995-03-13  
; NUMBER OF SEQ ID NOS: 70  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 49  
; LENGTH: 12  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic RNA

US-03-793-146-49

Query Match 42.0%; Score 8.4; DB 1; Length 12;  
Best Local Similarity 90.0%; Pred. No. 9; 2;  
Matches 9; Conservative 0; Mismatches 1; Indels 0;  
Gaps 0;

QY 1 CCTCATGGTC 10  
| |||||  
Db 11 CATCATGGTC 2

Search completed: June 13, 2006, 15:51:50  
Job time : 0.001 secs



Db 2 |||||CCTCAGTCATGGATG 20 ; US-10-719-370A-447  
; Sequence 447, Application US/10719370A ; Publication No. US20040220393A1  
; GENERAL INFORMATION: ;  
; APPLICANT: Ward, Donna T. ;  
; APPLICANT: Dobie, Kenneth W. ;  
; APPLICANT: Marcuson, Eric G. ;  
; APPLICANT: Freier, Susan M. ;  
; TITLE OF INVENTION: MODULATION OF HIF1a AND HIF2a EXPRESSION ;  
; FILE REFERENCE: ISPT-1010 ;  
; CURRENT APPLICATION NUMBER: US/10/719,370A ;  
; CURRENT FILING DATE: 2003-11-21 ;  
; PRIORITY NUMBER: US 10/304,126 ;  
; PRIORITY FILING DATE: 2002-11-23 ;  
; SEQ ID NO 447 ;  
; LENGTH: 20 ;  
; TYPE: DNA ;  
; ORGANISM: Artificial Sequence ;  
; FEATURE: ;  
; OTHER INFORMATION: Synthetic Construct ;  
; US-10-719-370A-447  
Query Match 95.0%; Score 19; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 3.4; Mismatches 0; Indels 0; Gaps 0;  
Matches 19; Conservative 0; ;  
Qy 2 CTCATGGTCATGGATG 20  
Db 1 CCTCATGGTCATGGATG 19  
RESULT 4  
US-10-719-370A-445  
; Sequence 445, Application US/10719370A  
; GENERAL INFORMATION:  
; APPLICANT: Ward, Donna T. ;  
; APPLICANT: Dobie, Kenneth W. ;  
; APPLICANT: Marcuson, Eric G. ;  
; APPLICANT: Freier, Susan M. ;  
; TITLE OF INVENTION: MODULATION OF HIF1a AND HIF2a EXPRESSION ;  
; FILE REFERENCE: ISPT-1010 ;  
; CURRENT APPLICATION NUMBER: US/10/719,370A ;  
; PRIORITY NUMBER: US 10/304,126 ;  
; PRIORITY FILING DATE: 2002-11-23 ;  
; NUMBER OF SEQ ID NOS: 458 ;  
; SOFTWARE: PatentIn version 3.2 ;  
; LENGTH: 20 ;  
; TYPE: DNA ;  
; OTHER INFORMATION: Synthetic Construct ;  
; US-10-719-370A-445  
Query Match 95.0%; Score 19; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 3.4; Mismatches 0; Indels 0; Gaps 0;  
Matches 19; Conservative 0; ;  
Qy 2 CTCATGGTCATGGATG 20  
Db 1 CCTCATGGTCATGGATG 19  
RESULT 4  
US-10-719-370A-445  
; Sequence 445, Application US/10719370A  
; GENERAL INFORMATION:  
; APPLICANT: Ward, Donna T. ;  
; APPLICANT: Dobie, Kenneth W. ;  
; APPLICANT: Marcuson, Eric G. ;  
; APPLICANT: Freier, Susan M. ;  
; TITLE OF INVENTION: MODULATION OF HIF1a AND HIF2a EXPRESSION ;  
; FILE REFERENCE: ISPT-1010 ;  
; CURRENT APPLICATION NUMBER: US/10/719,370A ;  
; PRIORITY NUMBER: US 10/304,126 ;  
; PRIORITY FILING DATE: 2002-11-23 ;  
; NUMBER OF SEQ ID NOS: 458 ;  
; SOFTWARE: PatentIn version 3.2 ;  
; LENGTH: 20 ;  
; TYPE: DNA ;  
; OTHER INFORMATION: Synthetic Construct ;  
; US-10-719-370A-445  
Query Match 95.0%; Score 19; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 3.4; Mismatches 0; Indels 0; Gaps 0;  
Matches 19; Conservative 0; ;  
Qy 2 CTCATGGTCATGGATG 20  
Db 1 CCTCATGGTCATGGATG 19  
RESULT 6  
US-10-766-185-25  
; Sequence 25, Application US/10766185 ;  
; Publication No. US20040152655A1  
; GENERAL INFORMATION: ;  
; APPLICANT: Yoon, Heejeong ;  
; APPLICANT: Ahn, Chang Ho ;  
; APPLICANT: Lee, Young Bok ;  
; APPLICANT: Mao, Lingjun ;  
; APPLICANT: Jiang, Xiloming ;  
; TITLE OF INVENTION: Antisense Oligonucleotides that inhibit expression of HIF-1 ;  
; FILE REFERENCE: RIK 7034 ;  
; CURRENT APPLICATION NUMBER: US/10/766,185 ;  
; CURRENT FILING DATE: 2004-01-28 ;  
; NUMBER OF SEQ ID NOS: 130 ;  
; SOFTWARE: PatentIn version 3.1 ;  
; SEQ ID NO 26 ;  
; LENGTH: 20 ;  
; TYPE: DNA ;  
; OTHER INFORMATION: Synthetic Construct ;  
; ORGANISM: artificial sequence ;  
; FEATURE: ;  
; OTHER INFORMATION: antisense oligonucleotide ;  
; US-10-766-185-25  
Query Match 90.0%; Score 18; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 4.5; Mismatches 0; Indels 0; Gaps 0;  
Matches 18; Conservative 0; ;  
Qy 3 TCTATGGTCATGGATG 20  
Db 1 TCTATGGTCATGGATG 18  
RESULT 5

RESULT 7

US-10-719-370A-451

; Sequence 451, Application US/10719370A

; Publication No. US20040220393A1

; GENERAL INFORMATION:

; APPLICANT: Ward, Donna T.

; APPLICANT: Dobie, Kenneth W.

; APPLICANT: Marcussen, Eric G.

; APPLICANT: Freier, Susan M.

; TITLE OF INVENTION: MODULATION OF HIF1a AND HIF2a EXPRESSION

; FILE REFERENCE: ISPT-1010

; CURRENT APPLICATION NUMBER: US/10/719,370A

; CURRENT FILING DATE: 2003-11-21

; PRIOR APPLICATION NUMBER: US 10/304,126

; NUMBER OF SEQ ID NOS: 458

; SOFTWARE: Patentin version 3.2

; SEQ ID NO 451

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE: OTHER INFORMATION: Synthetic Construct

; FEATURE: NAME/KEY: misc\_feature

; LOCATION: (12).(12)

; OTHER INFORMATION: n = inosine

; FEATURE: NAME/KEY: misc\_feature

; LOCATION: (15).(15)

; OTHER INFORMATION: n = pseudouridine

US-10-719-370A-451

Query Match 85.0%; Score 17; DB 1; Length 20;

Best Local Similarity 89.5%; Pred. No. 5,8; Mismatches 17; Conservative 0; Indels 2; Gaps 0; Gaps 0;

Db 2 CCTCATGGTCAGGATG 20

RESULT 8

US-10-719-370A-443

; Sequence 443, Application US/10719370A

; Publication No. US20040220393A1

; GENERAL INFORMATION:

; APPLICANT: Ward, Donna T.

; APPLICANT: Dobie, Kenneth W.

; APPLICANT: Marcussen, Eric G.

; APPLICANT: Freier, Susan M.

; TITLE OF INVENTION: MODULATION OF HIF1a AND HIF2a EXPRESSION

; FILE REFERENCE: ISPT-1010

; CURRENT APPLICATION NUMBER: US/10/719,370A

; CURRENT FILING DATE: 2003-11-21

; PRIOR APPLICATION NUMBER: US 10/304,126

; NUMBER OF SEQ ID NOS: 458

; SOFTWARE: Patentin version 3.2

; SEQ ID NO 443

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE: OTHER INFORMATION: Synthetic Construct

US-10-719-370A-443

Query Match 84.0%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 6,1; Mismatches 18; Conservative 0; Indels 2; Gaps 0; Gaps 0;

Db 1 CCTCATGGTCAGGATG 19

Db 2 CCTCATGGTCAGGATG 20

RESULT 9

US-10-719-370A-448

; Sequence 448, Application US/10719370A

; Publication No. US20040220393A1

; GENERAL INFORMATION:

; APPLICANT: Ward, Donna T.

; APPLICANT: Dobie, Kenneth W.

; APPLICANT: Marcussen, Eric G.

; APPLICANT: Freier, Susan M.

; TITLE OF INVENTION: MODULATION OF HIF1a AND HIF2a EXPRESSION

; FILE REFERENCE: ISPT-1010

; CURRENT APPLICATION NUMBER: US/10/719,370A

; CURRENT FILING DATE: 2003-11-21

; PRIOR APPLICATION NUMBER: US 10/304,126

; NUMBER OF SEQ ID NOS: 458

; SOFTWARE: Patentin version 3.2

; SEQ ID NO 448

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE: OTHER INFORMATION: Synthetic Construct

US-10-719-370A-448

Query Match 80.0%; Score 16; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 7,5; Mismatches 0; Indels 0; Gaps 0; Gaps 0;

Db 1 CCTCATGGTCAGATGG 16

Db 5 CCTCATGGTCACATGG 20

RESULT 10

US-10-719-370A-450

; Sequence 450, Application US/10719370A

; Publication No. US20040220393A1

; GENERAL INFORMATION:

; APPLICANT: Ward, Donna T.

; APPLICANT: Dobie, Kenneth W.

; APPLICANT: Marcussen, Eric G.

; APPLICANT: Freier, Susan M.

; TITLE OF INVENTION: MODULATION OF HIF1a AND HIF2a EXPRESSION

; FILE REFERENCE: ISPT-1010

; CURRENT APPLICATION NUMBER: US/10/719,370A

; CURRENT FILING DATE: 2003-11-21

; PRIOR APPLICATION NUMBER: US 10/304,126

; NUMBER OF SEQ ID NOS: 458

; SOFTWARE: Patentin version 3.2

; SEQ ID NO 450

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE: OTHER INFORMATION: Synthetic Construct

US-10-719-370A-450

Query Match 79.0%; Score 15.8; DB 1; Length 20;

Best Local Similarity 89.5%; Pred. No. 7,9; Mismatches 17; Conservative 0; Indels 2; Gaps 0; Gaps 0;

Db 1 CCTCATGGTCAGATGGT 19

Db 2 CCTCATGGTCAGGGATG 20

RESULT 11

us-10-719-370a-446.s1.rnpbm5

```

; Sequence 757115, Application US/10310914A
; Publication No. US2005003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087_0200.CPWS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 757115
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-757115

Query Match 72.0%; Score 14.4; DB 1; Length 19;
Best Local Similarity 93.8%; Pred. No. 10; Mismatches 0; Indels 1; Gaps 0;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 CCTCTCTGGCACATCG 16
Db 18 CCTGATGGTCACATCG 3

RESULT 12
US-11-083-784-440242
; Sequence 440242, Application US/11083784
; Publication No. US20050243475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khorrova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440242
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-083-784-440242

Query Match 72.0%; Score 14.4; DB 1; Length 19;
Best Local Similarity 93.8%; Pred. No. 10; Mismatches 0; Indels 1; Gaps 0;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 CCTCTCTGGCACATCG 16
Db 18 CCTGATGGTCACATCG 3

RESULT 12
US-11-083-784-440242
; Sequence 440242, Application US/11083784
; Publication No. US20050243475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khorrova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440242
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-083-784-440242

Query Match 72.0%; Score 14.4; DB 1; Length 19;
Best Local Similarity 93.8%; Pred. No. 10; Mismatches 0; Indels 1; Gaps 0;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 CCTCTCTGGCACATCG 16
Db 18 CCTGATGGTCACATCG 3

RESULT 14
US-11-083-784-15285/c
; Sequence 15285, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khorrova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 15285
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-083-784-15285

Query Match 69.0%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 12; Mismatches 2; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 3 TCATGGTCACATGGATG 19
Db 18 TCATGGTCAGGTGGATG 2

RESULT 15
US-11-083-784-144519
; Sequence 144519, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khorrova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/01/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440242
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-01-101-244-440242

Query Match 69.0%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 12; Mismatches 2; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 3 TCATGGTCACATGGATG 19
Db 18 TCATGGTCAGGTGGATG 2

```

RESULT 17  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 64.7%; Pred. No. 12;  
 Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 3 CCUCAUAGGUGACAUUGA 19

RESULT 18  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 12;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 3 TCTATGGCACATGGATG 19  
 Db 18 TCATGGTCAGGGATG 2

RESULT 19  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

US-11-083-784-1218947  
 ; Sequence 1218947, Application US/11083784  
 ; Publication No. US20050245475A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dharmacon, Inc.  
 ; APPLICANT: Khorrova, Anastasia  
 ; APPLICANT: Reynolds, Angela  
 ; APPLICANT: Leake, Devin  
 ; APPLICANT: Marshall, William  
 ; APPLICANT: Scaringe, Stephen  
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
 ; FILE REFERENCE: 13499US  
 ; CURRENT FILING DATE: 2005-03-18  
 ; PRIORITY NUMBER: US/10/714,333  
 ; PRIORITY NUMBER: 60/426,137  
 ; PRIORITY FILING DATE: 2003-09-10  
 ; NUMBER OF SEQ ID NOS: 1591911  
 ; SOFTWARE: Proprietary  
 ; SEQ ID NO: 144519  
 ; LENGTH: 19  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens

US-11-083-784-144519  
 ; Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 ; Best Local Similarity 70.6%; Pred. No. 12;  
 ; Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 16  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 15  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

US-11-101-244-144519  
 ; Sequence 144519, Application US/1101244  
 ; Publication No. US2005024679A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dharmacon, Inc.  
 ; APPLICANT: Khorrova, Anastasia  
 ; APPLICANT: Reynolds, Angela  
 ; APPLICANT: Leake, Devin  
 ; APPLICANT: Marshall, William  
 ; APPLICANT: Scaringe, Stephen  
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
 ; FILE REFERENCE: 13499US  
 ; CURRENT FILING DATE: 2005-03-18  
 ; PRIORITY NUMBER: US/10/714,333  
 ; PRIORITY FILING DATE: 2003-11-14  
 ; PRIORITY NUMBER: 60/502,050  
 ; PRIORITY FILING DATE: 2003-09-10  
 ; PRIORITY NUMBER: 60/426,137  
 ; PRIORITY FILING DATE: 2002-11-14  
 ; NUMBER OF SEQ ID NOS: 1591911  
 ; SOFTWARE: Proprietary  
 ; SEQ ID NO: 144519  
 ; LENGTH: 19  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens

US-11-101-244-144519  
 ; Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 ; Best Local Similarity 88.2%; Pred. No. 12;  
 ; Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 3 TCTATGGCACATGGATG 19  
 Db 18 TCATGGTCAGGGATG 2

RESULT 14  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 13  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 12  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 11  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 10  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 9  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 8  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 7  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 6  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 5  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 4  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 3  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 2  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

RESULT 1  
 Query Match 69.0%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 70.6%; Pred. No. 12;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCACATGGA 17  
 Db 2 CAUCAGGGUCACAUUGA 18

; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khorrova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
FILE REFERENCE: 13490US  
CURRENT APPLICATION NUMBER: US/11/101,244  
CURRENT FILING DATE: 2005-04-07  
PRIORITY APPLICATION NUMBER: 60/502,050  
PRIORITY FILING DATE: 2003-01-10  
PRIORITY FILING DATE: 2002-11-14  
NUMBER OF SEQ ID NOS: 1591911  
SOFTWARE: Proprietary  
SEQ ID NO 1218947  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-11-101-244-1218947  
Query Match 69.0%; Score 13.8%; DB 1; Length 19;  
Best Local Similarity 64.7%; Pred. No. 12;  
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;  
QY 1 CCTCTGGTACATGGA 17  
Db 3 CCUCAUGUGGACAUAGA 19  
RESULT 20  
US-11-083-784-155627/c  
; Sequence 155627, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khorrova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
FILE REFERENCE: 13490US  
CURRENT APPLICATION NUMBER: US/11/083,784  
CURRENT FILING DATE: 2005-03-18  
PRIORITY APPLICATION NUMBER: US/10/714,333  
PRIORITY FILING DATE: 2003-11-14  
PRIORITY APPLICATION NUMBER: 60/502,050  
PRIORITY FILING DATE: 2003-09-10  
PRIORITY APPLICATION NUMBER: 60/426,137  
PRIORITY FILING DATE: 2002-11-14  
NUMBER OF SEQ ID NOS: 1591911  
SOFTWARE: Proprietary  
SEQ ID NO 155627  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-11-083-784-155645  
; Sequence 155645, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khorrova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
FILE REFERENCE: 13490US  
CURRENT APPLICATION NUMBER: US/11/083,784  
CURRENT FILING DATE: 2005-03-18  
PRIORITY APPLICATION NUMBER: US/10/714,333  
PRIORITY FILING DATE: 2003-11-14  
PRIORITY APPLICATION NUMBER: 60/502,050  
PRIORITY FILING DATE: 2003-09-10  
PRIORITY APPLICATION NUMBER: 60/426,137  
PRIORITY FILING DATE: 2002-11-14  
NUMBER OF SEQ ID NOS: 1591911  
SOFTWARE: Proprietary  
SEQ ID NO 943972  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-11-083-784-943972  
Query Match 67.0%; Score 13.4%; DB 1; Length 19;  
Best Local Similarity 93.4%; Pred. No. 13; Mismatches 0; Indels 0; Gaps 0;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 6 TGGTCACATGGATGA 20  
Db 17 TGGTACATGGATGA 3  
RESULT 21  
US-11-083-784-155645/c  
; Sequence 155645, Application US/11083784

RESULT 23

US-11-083-784-1009396/c  
Sequence 1009396, Application US/11083784

Publication No. US20050245475A1

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khrorova, Anastasia.

APPLICANT: Reynolds, Angela.

APPLICANT: Leake, Devin.

APPLICANT: Marshall, William.

APPLICANT: Scaringe, Stephen.

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/083, 784

CURRENT FILING DATE: 2005-03-18

PRIOR APPLICATION NUMBER: US/10/714, 333

PRIOR FILING DATE: 2003-11-14

PRIOR APPLICATION NUMBER: 60/502, 050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426, 137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO: 109396

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-083-784-1009396

Query Match 67.0%; Score 13.4; DB 1; Length 19;  
Best Local Similarity 93.3%; Pred. No. 13;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCTCATGGTACTTG 15

Db 15 CCTCAAGSTCTCAGTG 1

RESULT 24

US-11-083-784-1224506

Sequence 1224506, Application US/11083784

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khrorova, Anastasia.

APPLICANT: Reynolds, Angela.

APPLICANT: Leake, Devin.

APPLICANT: Marshall, William.

APPLICANT: Scaringe, Stephen.

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/083, 784

CURRENT FILING DATE: 2005-03-18

PRIOR APPLICATION NUMBER: US/11/083, 784

PRIOR FILING DATE: 2005-03-18

PRIOR APPLICATION NUMBER: US/10/714, 333

PRIOR FILING DATE: 2003-11-14

PRIOR APPLICATION NUMBER: 60/502, 050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426, 137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 1224506

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-083-784-1224506

RESULT 25

US-11-101-244-155627/c

Sequence 155627, Application US/1101244

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khrorova, Anastasia.

APPLICANT: Reynolds, Angela.

APPLICANT: Leake, Devin.

APPLICANT: Marshall, William.

APPLICANT: Scaringe, Stephen.

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/101, 244

CURRENT FILING DATE: 2005-04-07

PRIOR APPLICATION NUMBER: 60/502, 050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426, 137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 155645

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-101-244-155645

RESULT 26

US-11-101-244-155645/c

Sequence 155645, Application US/1101244

GENERAL INFORMATION:

APPLICANT: Dharmacon, Inc.

APPLICANT: Khrorova, Anastasia.

APPLICANT: Reynolds, Angela.

APPLICANT: Leake, Devin.

APPLICANT: Marshall, William.

APPLICANT: Scaringe, Stephen.

TITLE OF INVENTION: Functional and Hyperfunctional siRNA

FILE REFERENCE: 13499US

CURRENT APPLICATION NUMBER: US/11/101, 244

CURRENT FILING DATE: 2005-04-07

PRIOR APPLICATION NUMBER: 60/502, 050

PRIOR FILING DATE: 2003-09-10

PRIOR APPLICATION NUMBER: 60/426, 137

PRIOR FILING DATE: 2002-11-14

NUMBER OF SEQ ID NOS: 1591911

SOFTWARE: Proprietary

SEQ ID NO 155645

LENGTH: 19

TYPE: RNA

ORGANISM: Homo sapiens

US-11-101-244-155645

Query Match 67.0%; Score 13.4; DB 1; Length 19;

Best Local Similarity 93.3%; Pred. No. 13;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 6 TGGTCAGTGGATGA 20

Db 19 TGGTACATGGATGA 5

Qy 6 TGGTCAGTGGATGA 20

Db 19 TGGTACATGGATGA 5

RESULT 27  
 US-11-101-244-943972  
 ; Sequence 943972, Application US/11101244  
 ; Publication No. US20050246794A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dharmacon, Inc.  
 ; APPLICANT: Khvorova, Anastasia  
 ; APPLICANT: Reynolds, Angela  
 ; APPLICANT: Leake, Devin  
 ; APPLICANT: Marshall, William  
 ; APPLICANT: Scaringe, Stephen  
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
 ; FILE REFERENCE: 13499US  
 ; CURRENT APPLICATION NUMBER: US/11/101,244  
 ; CURRENT FILING DATE: 2005-04-07  
 ; PRIOR APPLICATION NUMBER: 60/502,050  
 ; PRIOR FILING DATE: 2003-09-10  
 ; PRIOR APPLICATION NUMBER: 60/426,137  
 ; PRIOR FILING DATE: 2002-11-14  
 ; NUMBER OF SEQ ID NOS: 1591911  
 ; SOFTWARE: Proprietary  
 ; SEQ ID NO: 943972  
 ; LENGTH: 19  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens  
 ; US-11-101-244-943972

RESULT 28  
 US-11-101-244-1009396/c  
 ; Sequence 1009396, Application US/11101244  
 ; Publication No. US20050246794A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dharmacon, Inc.  
 ; APPLICANT: Khvorova, Anastasia  
 ; APPLICANT: Reynolds, Angela  
 ; APPLICANT: Leake, Devin  
 ; APPLICANT: Marshall, William  
 ; APPLICANT: Scaringe, Stephen  
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
 ; FILE REFERENCE: 13499US  
 ; CURRENT APPLICATION NUMBER: US/11/101,244  
 ; CURRENT FILING DATE: 2005-04-07  
 ; PRIOR APPLICATION NUMBER: 60/502,050  
 ; PRIOR FILING DATE: 2003-09-10  
 ; PRIOR APPLICATION NUMBER: 60/426,137  
 ; PRIOR FILING DATE: 2002-11-14  
 ; NUMBER OF SEQ ID NOS: 1591911  
 ; SOFTWARE: Proprietary  
 ; SEQ ID NO: 1224506  
 ; LENGTH: 19  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens  
 ; US-11-101-244-1224506

RESULT 29  
 US-11-101-244-1224506  
 ; Sequence 1224506, Application US/11101244  
 ; Publication No. US20050246794A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dharmacon, Inc.  
 ; APPLICANT: Khvorova, Anastasia  
 ; APPLICANT: Reynolds, Angela  
 ; APPLICANT: Leake, Devin  
 ; APPLICANT: Marshall, William  
 ; APPLICANT: Scaringe, Stephen  
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
 ; FILE REFERENCE: 13499US  
 ; CURRENT APPLICATION NUMBER: US/11/101,244  
 ; CURRENT FILING DATE: 2005-04-07  
 ; PRIOR APPLICATION NUMBER: 60/502,050  
 ; PRIOR FILING DATE: 2003-09-10  
 ; PRIOR APPLICATION NUMBER: 60/426,137  
 ; PRIOR FILING DATE: 2002-11-14  
 ; NUMBER OF SEQ ID NOS: 1591911  
 ; SOFTWARE: Proprietary  
 ; SEQ ID NO: 1224506  
 ; LENGTH: 19  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens  
 ; US-11-101-244-1224506

RESULT 30  
 US-09-866-108-7612/c  
 ; Sequence 7612, Application US/09866108  
 ; Patent No. US2002048800A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: GU, Yizhong  
 ; APPLICANT: JI, Yonggang  
 ; APPLICANT: PENN, Sharron G.  
 ; APPLICANT: HANZEL, David K.  
 ; APPLICANT: RANK, David R.  
 ; APPLICANT: CHEN, Wensheng  
 ; APPLICANT: SHANNON, Mark  
 ; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
 ; FILE REFERENCE: ABOMICHA-7  
 ; CURRENT APPLICATION NUMBER: US/09/866,108  
 ; CURRENT FILING DATE: 2001-05-25  
 ; PRIOR APPLICATION NUMBER: US 60/207,456  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR APPLICATION NUMBER: GB 24263,6  
 ; PRIOR FILING DATE: 2000-10-04  
 ; PRIOR APPLICATION NUMBER: US 60/236,359  
 ; PRIOR FILING DATE: 2000-09-27  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00667  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00664  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00669  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00665  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00668  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00663  
 ; PRIOR FILING DATE: 2001-01-30

Query Match 67.0%; Score 13.4; DB 1; Length 19;  
 Best Local Similarity 93.3%; Pred. No. 13;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTGTACATG 15  
 Db 15 CCTCAAGGTCAGTG 1

Query Match 67.0%; Score 13.4; DB 1; Length 19;  
 Best Local Similarity 93.3%; Pred. No. 13;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTGTACATG 15  
 Db 15 CCTCAAGGTCAGTG 1

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; PRIORITY APPLICATION NUMBER: PCT/US01/00662
; PRIORITY FILING DATE: 2001-01-30
; PRIORITY APPLICATION NUMBER: PCT/US01/00661
; PRIORITY FILING DATE: 2001-01-30
; PRIORITY APPLICATION NUMBER: PCT/US01/00670
; PRIORITY FILING DATE: 2001-01-30
; PRIORITY APPLICATION NUMBER: US 60/234, 687
; PRIORITY FILING DATE: 2000-09-21
; PRIORITY APPLICATION NUMBER: US 60/266, 860
; NUMBER OF SEQ ID NOS: 15752
; SEQ ID NO: 7612
; SOFTWARE: Aeonica Sequence Listing Engine
; ORGANISM: Homo sapiens

; US-09-866-108-7612
; LENGTH: 17
; TYPE: DNA

; Query Match 61.0%; Score 12.2; DB 1; Length 17;
; Best Local Similarity 82.4%; Pred. No. 15; Mismatches 0; Indels 0; Gaps 0;
; Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
; Qy 1 CCTCATGGCACATGGA 17
; Db 17 CCTCAAGGACACAGGT A 1

; RESULT 31
; US-10-723-361-7612/c
; Sequence 7612, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MROSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AND LIVER
; FILE REFERENCE: PBU105
; CURRENT APPLICATION NUMBER: US/10/723, 361
; CURRENT FILING DATE: 2003-11-26
; PRIORITY APPLICATION NUMBER: US 09/866, 108
; PRIORITY FILING DATE: 2001-05-25
; PRIORITY APPLICATION NUMBER: US 60/207, 456
; PRIORITY FILING DATE: 2000-05-26
; PRIORITY APPLICATION NUMBER: GB 24263, 6
; PRIORITY FILING DATE: 2000-10-04
; PRIORITY APPLICATION NUMBER: US 60/236, 359
; PRIORITY FILING DATE: 2000-09-27
; PRIORITY APPLICATION NUMBER: PCT/US01/00666
; PRIORITY FILING DATE: 2001-01-30
; PRIORITY APPLICATION NUMBER: PCT/US01/00667
; PRIORITY FILING DATE: 2001-01-30
; PRIORITY APPLICATION NUMBER: PCT/US01/00664
; PRIORITY FILING DATE: 2001-01-30
; PRIORITY APPLICATION NUMBER: PCT/US01/00669
; PRIORITY FILING DATE: 2001-01-30
; PRIORITY APPLICATION NUMBER: PCT/US01/00665
; PRIORITY FILING DATE: 2001-01-30
; PRIORITY APPLICATION NUMBER: PCT/US01/00668
; PRIORITY FILING DATE: 2001-01-30
; PRIORITY APPLICATION NUMBER: PCT/US01/00669
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeonica Sequence Listing Engine
; SEQ ID NO: 7612
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens

; US-09-916-466-30
; Sequence 30, Application US/09916466
; Publication No. US20030064945A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Akhtar, Sagir
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or conditions Related To Level of Eidermal Growth Factor Receptors
; FILE REFERENCE: MBHB0-958-J (400/032)
; CURRENT APPLICATION NUMBER: US/09/916, 466
; CURRENT FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 446
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 30
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Homo sapiens

; US-09-916-466-30
; Sequence 30, Application US/09916466
; Publication No. US20030064945A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Akhtar, Sagir
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or conditions Related To Level of Eidermal Growth Factor Receptors
; FILE REFERENCE: MBHB0-958-J (400/032)
; CURRENT APPLICATION NUMBER: US/09/916, 466
; CURRENT FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 446
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 30
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Homo sapiens

; RESULT 33
; US-10-277-494-30
; Sequence 30, Application US/10277494
; Publication No. US20030186909A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or conditions Related To Level of Eidermal Growth Factor Receptors
; FILE REFERENCE: MBHB0-958-K (400/034)
; CURRENT APPLICATION NUMBER: US/10/277, 494
; CURRENT FILING DATE: 2002-10-21
; NUMBER OF SEQ ID NOS: 446
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 30
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Homo sapiens

; US-10-277-494-30
; Query Match 57.0%; Score 11.4; DB 1; Length 15;
; Best Local Similarity 61.5%; Pred. No. 15; Mismatches 1; Indels 0; Gaps 0;
; Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
; Qy 3 TCATGGCACATG 15
; Db 1 UCGUGGUGAAUG 13

; RESULT 34
; US-10-257-017B-228161
; Sequence 228161, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek

```

```

; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIORITY APPLICATION NUMBER: DE 10019173.8
; NUMBER OF SEQ ID NOS: 382046
SEQ ID NO 228161
LENGTH: 13
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0055641
US-10-257-017B-228161

Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 17; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 8 GTCACATGGATGA 20
Db 1 GTTACATGGATGA 13

RESULT 35
US-10-257-017B-228162/c
Sequence 228162, Application US/10257017B
Publication No. US20040241651A1
GENERAL INFORMATION:
APPLICANT: Alexander Olek
APPLICANT: Christian Piepenbrock
APPLICANT: Kurt Berlin
TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
TITLE OF INVENTION: methylation
FILE REFERENCE: E01/1193/WO
CURRENT APPLICATION NUMBER: US/10/257,017B
CURRENT FILING DATE: 2002-10-07
PRIORITY APPLICATION NUMBER: DE 10019173.8
PRIORITY FILING DATE: 2000-04-07
NUMBER OF SEQ ID NOS: 382046
SEQ ID NO 228162
LENGTH: 13
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0055641
US-10-257-017B-228162

Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 17; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 8 GTCACATGGATGA 20
Db 13 GTTACATGGATGA 1

RESULT 36
US-10-257-017B-245261
Sequence 245261, Application US/10257017B
Publication No. US20040241651A1
GENERAL INFORMATION:
APPLICANT: Alexander Olek
APPLICANT: Christian Piepenbrock
APPLICANT: Kurt Berlin
TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
FILE REFERENCE: E01/1193/WO
CURRENT APPLICATION NUMBER: US/10/257,017B
CURRENT FILING DATE: 2002-10-07
PRIORITY APPLICATION NUMBER: DE 10019173.8
PRIORITY FILING DATE: 2000-04-07
NUMBER OF SEQ ID NOS: 382046
SEQ ID NO 245261
LENGTH: 13
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0059887
US-10-257-017B-245262

Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 17; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 6 TGGTACATGGAT 18
Db 13 TGGTACATGGAT 1

Search completed: June 13, 2006, 15:50:13
Job time : 0.001 sec

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XX	PD	04-NOV-2004.
XX	PP	21-NOV-2003; 2003US-00719370.
XX	PR	23-NOV-2002; 2002US-00304126.
XX	PA	(WARD/) WARD D T.
XX	PA	(DOBIE/) DOBIE K W.
XX	PA	(MARC/) MARCUSSON E G.
XX	PA	(FREIER/) FREIER S M.
XX	PI	Ward DT, Dobie KW, Marcusson EG, Freier SM;
XX	DR	WPI; 2004-774955/76.
XX	PT	New antisense compound which inhibits the expression of hypoxia-inducible factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating hyperproliferative disorder, e.g. cancer carrying a p53 mutation.
XX	PS	Claim 92; SEQ ID NO 446; 195pp; English.
CC	CC	The present invention relates to antisense compounds targeted to nucleic acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound comprises an antisense oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of HIF1alpha and/or HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
CC	CC	The antisense oligonucleotide comprises at least one modified internucleoside linkage, preferably a phosphorothioate linkage. It also comprises at least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotides are useful for the treatment of diseases such as hyperproliferative disorders, e.g. cancer, preferably a cancer carrying a p53 mutation, or an angiogenic disorder that affects the eye. The compound is also useful for treating tumours, hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis, atherosclerosis and smooth muscle cell proliferation in the blood vessels such as stenosis or restenosis following angioplasty. It is also useful in drug discovery and target validation, and can be utilised for diagnostics, therapeutics, prophylaxis and as research reagents and kits. The present sequence represents an oligonucleotide used in the examples of the present invention.
CC	CC	Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;
CC	CC	Query Match 100.0%; Score 20; DB 1; Length 20; Best Local Similarity 100.0%; Pred. No. 1.7; Mismatches 0; Indels 0; Gaps 0;
CC	CC	Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC	CC	QY 1 CCTCTGGTCACTGGATGA 20
CC	CC	DB 1 CCTCTGGTCACTGGATGA 20
XX	AC	RESULT 2
XX	ADT78876	ADT78876 standard; DNA; 20 BP.
XX	AC	ADT78876;
DT	DT	27-JAN-2005 (first entry)
DB	DB	Antisense oligonucleotide (ISIS 330448) for human HIF1alpha.
XX	AC	Antisense therapy; human; hypoxia-inducible factor 1 alpha; hypoxia-inducible factor 2 alpha; HIF1alpha; HIF1alpha; hyperproliferative disorder; cancer; p53; angiogenic disorder; eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis; priariasis; atherosclerosis; smooth muscle cell proliferation; blood vessel; restenosis; angioplasty; cytotoxic; angiogenesis; ophthalmological; antiinflammatory; respiratory; vasotropic; BP.
XX	AC	RESULT 3
DT	ID	ADT78571
XX	XX	ADT78571 standard; DNA; 20 BP.
AC	AC	ADT78571;
DT	DT	27-JAN-2005 (first entry)
DB	DB	HIF1alpha cDNA, antisense oligonucleotide ISIS #298697.
XX	XX	Antisense therapy; human; hypoxia-inducible factor 1 alpha; hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha; hyperproliferative disorder; cancer; p53; angiogenic disorder;
KW	KW	Homo sapiens.
XX	OS	US-004220393-A1.
XX	PN	21-NOV-2003; 2003US-00719370.
XX	PR	23-NOV-2002; 2002US-00304126.
XX	PA	(WARD/) WARD D T.
XX	PA	(DOBIE/) DOBIE K W.
XX	PA	(MARC/) MARCUSSON E G.
XX	PA	(FREIER/) FREIER S M.
XX	PA	Ward DT, Dobie KW, Marcusson EG, Freier SM;
XX	DR	WPI; 2004-774955/76.
XX	PT	New antisense compound which inhibits the expression of hypoxia-inducible factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating hyperproliferative disorder, e.g. cancer carrying a p53 mutation.
XX	PS	Claim 92; SEQ ID NO 447; 155pp; English.
CC	CC	The present invention relates to antisense compounds targeted to nucleic acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound comprises an antisense oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of HIF1alpha and/or HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
CC	CC	The antisense oligonucleotide comprises at least one modified internucleoside linkage, preferably a phosphorothioate linkage. It also comprises at least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotides are useful for the treatment of diseases such as hyperproliferative disorders, e.g. cancer, preferably a cancer carrying a p53 mutation, or an angiogenic disorder that affects the eye. The compound is also useful for treating tumours, hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis, atherosclerosis and smooth muscle cell proliferation in the blood vessels such as stenosis or restenosis following angioplasty. It is also useful in drug discovery and target validation, and can be utilised for diagnostics, therapeutics, prophylaxis and as research reagents and kits. The present sequence represents an oligonucleotide used in the examples of the present invention.
CC	CC	Sequence 20 BP; 5 A; 4 C; 6 G; 5 T; 0 U; 0 Other;
CC	CC	Query Match 95.0%; Score 19; DB 1; Length 20; Best Local Similarity 100.0%; Pred. No. 2.4; Mismatches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC	CC	QY 2 CCTCTGGTCACTGGATGA 20
CC	CC	DB 1 CCTCTGGTCACTGGATGA 19

Query Match 95.0%; Score 19; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 2.4; Mismatches 0;  
 . Matches 19; Conservative 0; Indels 0; Gaps 0;

Qy	1 CCTCATGGTCAATGGATG 19
Db	2 CCTCATGGTCAATGGATG 20

RESULT 4

ID	ADT78881
ID	ADT78881 standard; DNA; 20 BP.
XX	
AC	ADT78881;
XX	
DT	27-JAN-2005 (first entry)
XX	
DE	Antisense oligonucleotide (ISIS 337224) for human HIF1alpha/HIF2alpha.
XX	
KW	Antisense therapy; human; hypoxia-inducible factor 1 alpha;
KW	hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha;
KW	hypoproliferative disorder; cancer; p53; angiogenic disorder;
KW	eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis;
KW	psoriasis; atherosclerosis; smooth muscle cell proliferation;
KW	blood vessel; restenosis; angioplasty; cytostatic; angiogenesis;
KW	ophthalmological; antiinflammatory; respiratory; vasotropic; ss.
OS	Homo sapiens.
XX	
PP	21-NOV-2003; 2003US-00719370.
XX	
PR	23-NOV-2002; 2002US-00304126.
XX	
PA	(WARD/) WARD D T.
PA	(DOB1/) DOBIE K W.
PA	(MARC/) MARCUSSON E G.
PA	(FREI/) FREIER S M.
PT	Ward DR, Dobie KW, Marcusson EG, Freier SM;
XX	
XX	
PR	Ward DR, Dobie KW, Marcusson EG, Freier SM;
XX	
DR	WPI; 2004-774955/76.
XX	
PT	New antisense compound which inhibits the expression of hypoxia-inducible
PT	factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating
PT	hyperproliferative disorder, e.g. cancer carrying a p53 mutation.
XX	
PS	Claim 27; SEQ ID NO 141; 195pp; English.
XX	
CC	The present invention relates to antisense compounds targeted to nucleic
CC	acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or
CC	hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound
CC	comprises an antisense oligonucleotide that specifically hybridises with
CC	the nucleic acid and inhibits the expression of HIF1alpha and/or
CC	HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
CC	The antisense oligonucleotide comprises at least one modified
CC	internucleoside linkage, preferably a phosphorothioate linkage. It also
CC	comprises at least one modified sugar moiety, preferably a 2'-O-
CC	methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
CC	comprises at least one modified nucleobase, preferably a 5'-
CC	methylycytosine. The antisense oligonucleotides are useful for the
CC	treatment of diseases such as hyperproliferative disorders, e.g. cancer,
CC	preferably a cancer carrying a p53 mutation, or an angiogenic disorder
CC	that affects the eye. The compound is also useful for treating tumours,
CC	hyperplasia, pulmonary fibrosis, angiogenesis, psoriasis,
CC	atherosclerosis and smooth muscle cell proliferation in the blood vessels
CC	such as stenosis or restenosis following angioplasty. It is also useful
CC	in drug discovery and target validation, and can be utilised for
CC	diagnostics, therapeutics, prophylaxis and as research reagents and kits.
CC	The present sequence represents an antisense oligonucleotide used in the
CC	examples of the present invention.
SQ	Sequence 20 BP; 4 A; 5 C; 5 G; 6 T; 0 U; 0 Other;

CC treatment of diseases such as hyperproliferative disorders, e.g. cancer, preferably a cancer carrying a p53 mutation, or an angiogenic disorder that affects the eye. The compound is also useful for treating tumours, atherosclerosis, pulmonary fibrosis, angiogenesis, psoriasis, such as stenosis or restenosis following angioplasty. It is also useful in drug discovery and target validation, and can be utilised for diagnostics, therapeutics, prophylaxis and as research reagents and kits. The present sequence represents an oligonucleotide used in the examples of the present invention.

SQ Sequence 20 BP; 4 A; 5 C; 5 G; 4 T; 0 U; 2 Other;

Query Match 90.0%; Score 18; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 3.5;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Db 1 CCTCATGCTCACTGGATGA 20

RESULT 5

ID ADT8374

ID ADT7874 standard; DNA; 20 BP.

AC XX

AC ADT7874;

XX DT 27-JAN-2005 (first entry)

XX DE Antisense oligonucleotide (ISIS 330447) for human HIF1alpha.

XX KW antisense therapy; human; hypoxia-inducible factor 1 alpha; hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha; hyperproliferative disorder; cancer; p53; angiogenic disorder; eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis; psoriasis; atherosclerosis; smooth muscle cell proliferation; blood vessel; restenosis; angioplasty; cytostatic; angiogenesis; ophthalmological; antiinflammatory; respiratory; vasotropics; ss.

XX OS Homo sapiens.

XX PN US2004220393-A1.

XX PD 04-NOV-2004.

XX PP 21-NOV-2003; 2003US-00719370.

XX PR 23-NOV-2002; 2002US-00304126.

XX PA (WARD/) WARD D T.

PA (DOB/) DOBLE K W.

PA (MARC/) MARCUSSON E G.

PA (FREI/) FREIER S M.

XX PI Ward DT, Doble KW, Marcusson EG, Freier SM;

XX DR WPI; 2004-774955/76.

XX PT New antisense compound which inhibits the expression of hypoxia-inducible factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating hyperproliferative disorder, e.g. cancer carrying a p53 mutation.

XX PS Claim 92; SEQ ID NO 445; 15pp; English.

XX CC The present invention relates to antisense compounds targeted to nucleic acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound comprises an antisense oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of HIF1alpha and/or HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide. The antisense oligonucleotide comprises at least one modified

CC comprises at least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotides are useful for the treatment of diseases such as hyperproliferative disorders, e.g. cancer, preferably a cancer carrying a p53 mutation, or an angiogenic disorder that affects the eye. The compound is also useful for treating tumours, hyperplasia, pulmonary fibrosis, angiogenesis, psoriasis, atherosclerosis and smooth muscle cell proliferation in the blood vessels such as stenosis or restenosis following angioplasty. It is also useful in drug discovery and target validation, and can be utilised for diagnostics, therapeutics, prophylaxis and as research reagents and kits. The present sequence represents an oligonucleotide used in the examples of the present invention.

SQ Sequence 20 BP; 5 A; 3 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 90.0%; Score 18; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 3.5;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 TCTATGGTACATGGATGA 18

RESULT 6

ID ADQ88746

ID ADQ88746 standard; DNA; 20 BP.

AC XX

AC ADQ88746;

XX DT 21-OCT-2004 (first entry)

XX DE Human HIF-1 antisense oligonucleotide RX-0041. RX-0047; RX-0149; human; hypoxia inducible factor; HIF-1; cytotoxicity; cancer; infection; inflammation; tumour formation; ss; antisense oligonucleotide; antisense technology; RX-0158; RX-0041.

XX OS Homo sapiens.

XX PN US2004152655-A1.

XX PD 05-AUG-2004.

XX PP 28-JAN-2004; 2004US-00766185.

XX PR 31-JAN-2003; 2003US-0444367P.

XX PA (YOUN/) YOON H.

PA (MAOL/) MAO L.

PA (LIBY/) LEE Y B.

PA (AHRN/) AHN C.

PA (JIAN/) JIANG X.

XX PI Yoon H, Mao L, Lee YB, Ahn C, Jiang X;

XX DR WPI; 2004-561492/54.

XX PT New RX-0047 and RX-0149 antisense oligonucleotide compounds targeted to a nucleic acid molecule encoding human hypoxia inducible factor (HIF-1). Also described are: a method of inhibiting the expression HIF-1 in human cells or tissues; and a method of inducing cytotoxicity in several cancer cells.

XX PS Example 4; SEQ ID NO 26; 35pp; English.

XX CC The invention describes a compound, RX-0047 or RX-0149 targeted to a nucleic acid molecule encoding human hypoxia inducible factor (HIF-1), where the oligonucleotide compound inhibits the expression of human HIF-1. Also described are: a method of inhibiting the expression of HIF-1 in human cells or tissues; and a method of inducing cytotoxicity in a cancer cell. Specifically claimed are RX-0047 and RX-0149 compounds having a

CC fully defined sequence comprising 20 bp (SEQ ID NO. 2, 5' aatggaggccacgtgtccaa 3', and SEQ ID NO. 4, 5' ggagccaaacactcggcgtc 3', respectively). The compounds are useful for inhibiting the expression of HIF-1 and, inducing the cytotoxicity in several cancer cells. The antisense compounds are also useful for preventing or delaying the infection, inflammation, or tumour formation. This sequence represents a human HIF-1 antisense oligonucleotide.

CC Sequence 20 BP; 6 A; 3 C; 6 G; 5 T; 0 U; 0 Other;

CC Best Local Similarity 85.0%; Score 17; DB 1; Length 20;

CC Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC Qy 4 CAGGGTCACATGCGATGA 20

CC Db 1 CAGGGTCACATGCGATGA 17

RESULT 7

XX ADT78880 standard; DNA; 20 BP.

XX ADT78880; DT 27-JAN-2005 (first entry)

DB Antisense oligonucleotide (ISIS 337223) for human HIF1alpha/HIF2alpha.

XX Antisense therapy; human; hypoxia-inducible factor 1 alpha; KW hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha; KW hyperproliferative disorder; cancer; p53; angiogenic disorder; KW eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis; KW psoriasis; atherosclerosis; smooth muscle cell proliferation; KW blood vessel; restenosis; angioplasty; cytostatic; angiogenesis; KW ophthalmological; antiinflammatory; respiratory; vasotropic; ss. OS Homo sapiens.

XX Key Location/Qualifiers

FT modified\_base 12 /\*tag= a /mod\_base= i

FT modified\_base 15 /\*tag= b /mod\_base= OTHER /note= "OTHER= Pseudouridine"

XX US2004220393-A1. PN 04-NOV-2004.

XX PP 21-NOV-2003; 2003US-00719370.

PR 23-NOV-2002; 2002US-00304126.

XX (WARD/) WARD D. T. PA (DOB/) DOBIE K. W. PA (MARC/) MARCUSSON E. G. PA (FREI/) FREIER S. M.

XX Ward DT, Dobie KW, Marcusson EG, Freier SM; DR WPI; 2004-774955/76.

XX New antisense compound which inhibits the expression of hypoxia-inducible factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating hyperproliferative disorder, e.g. cancer carrying a p53 mutation.

XX Example 30; SEQ ID NO 451; 195pp; English.

CC The present invention relates to antisense compounds targeted to nucleic acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or

CC hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound comprises an antisense oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of HIF1alpha and/or HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.

CC The antisense oligonucleotide comprises at least one modified internucleoside linkage, preferably a phosphorothioate linkage. It also comprises at least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotides are useful for the treatment of diseases such as hyperproliferative disorders, e.g. cancer, preferably a cancer carrying a p53 mutation, or an angiogenic disorder that affects the eye. The compound is also useful for treating tumours, hyperplasia, pulmonary fibrosis, psoriasis, atherosclerosis and smooth muscle cell proliferation in the blood vessels such as stenosis or restenosis following angioplasty. It is also useful in drug discovery and target validation, and can be utilised for diagnostics, therapeutics, prophylaxis and as research reagents and kits. The present sequence represents an oligonucleotide used in the examples of the present invention.

XX Sequence 20 BP; 3 A; 5 C; 5 G; 5 T; 0 U; 2 Other;

XX ADT78872 standard; DNA; 20 BP.

XX ADT78872; DT 27-JAN-2005 (first entry)

DB Antisense oligonucleotide (ISIS 330460) for human HIF2alpha.

XX Antisense therapy; human; hypoxia-inducible factor 1 alpha; KW hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha; KW hyperproliferative disorder; cancer; p53; angiogenic disorder; KW eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis; KW psoriasis; atherosclerosis; smooth muscle cell proliferation; KW blood vessel; restenosis; angioplasty; cytostatic; angiogenesis; KW ophthalmological; antiinflammatory; respiratory; vasotropic; ss. OS Homo sapiens.

XX PN US2004220393-A1. PR 04-NOV-2004.

XX PR 21-NOV-2003; 2003US-00719370.

PR 23-NOV-2002; 2002US-00304126.

XX (WARD/) WARD D. T. PA (DOB/) DOBIE K. W. PA (MARC/) MARCUSSON E. G. PA (FREI/) FREIER S. M.

XX Ward DT, Dobie KW, Marcusson EG, Freier SM; DR WPI; 2004-774955/76.

XX New antisense compound which inhibits the expression of hypoxia-inducible factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating hyperproliferative disorder, e.g. cancer carrying a p53 mutation.

XX The present invention relates to antisense compounds targeted to nucleic acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or

PS Claim 92; SEQ ID NO 443; 195pp; English.

PT XX The present invention relates to antisense compounds targeted to nucleic acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of HIF1alpha and/or HIF2alpha. The antisense oligonucleotide comprises at least one modified internucleoside linkage, preferably a phosphorothioate linkage. It also comprises at least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotides are useful for the treatment of diseases such as hyperproliferative disorders, e.g. cancer, preferably a cancer carrying a p53 mutation, or an angiogenic disorder that affects the eye. The compound is also useful for treating tumours, hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis, atherosclerosis and smooth muscle cell proliferation in the blood vessels such as stenosis or restenosis following angioplasty. It is also useful in drug discovery and target validation, and can be utilised for diagnostics, therapeutics, prophylaxis and as research reagents and kits. The present sequence represents an oligonucleotide used in the examples of the present invention.

CC XX Sequence 20 BP; 4 A; 5 C; 7 G; 4 T; 0 U; 0 Other; SQ

Query Match 84.0%; Score 16.8; DB 1; Length 20; Best Local Similarity 90.0%; Pred. No. 5.5; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CCCATGGTCACATGGATGA 20

Db 1 CCCATGGTCAGGGATGA 20

RESULT 9

PT XX ADT78877 standard; DNA; 20 BP.

DE XX AC ADT78877; DT 27-JAN-2005 (first entry)

DE XX DE Antisense oligonucleotide (ISIS 330452) for human HIF1alpha.

DE XX KW Antisense therapy; human; hypoxia-inducible factor 1 alpha; hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha; hyperproliferative disorder; cancer; p53; angiogenic disorder; eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis; psoriasis; atherosclerosis; smooth muscle cell proliferation; blood vessel; restenosis; angioplasty; cytostatic; angiogenesis; ophthalmological; antiinflammatory; respiratory; vasotropic; ss. KW OS Homo sapiens.

DE XX PN US2004220393-A1.

DE XX PD 04-NOV-2004.

DE XX PF 21-NOV-2003; 2003US-00719370.

DE XX PR 23-NOV-2002; 2002US-00304126.

DE XX PA (WARD/) WARD D T. (DOB/) DOBIE K W. (MARC/) MARCUSON E G. (FREI/) FREIER S M.

DE XX PR 23-NOV-2002; 2002US-00304126.

DE XX PA (WARD/) WARD D T. (DOB/) DOBIE K W. (MARC/) MARCUSON E G. (FREI/) FREIER S M.

PS Claim 92; SEQ ID NO 448; 195pp; English.

PT XX The present invention relates to antisense compounds targeted to nucleic acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of HIF1alpha and/or HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide. The present invention relates to antisense compounds targeted to nucleic acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound comprises an antisense oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of HIF1alpha and/or HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide. The antisense oligonucleotide comprises at least one modified internucleoside linkage, preferably a phosphorothioate linkage. It also comprises at least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotides are useful for the treatment of diseases such as hyperproliferative disorders, e.g. cancer, preferably a cancer carrying a p53 mutation, or an angiogenic disorder that affects the eye. The compound is also useful for treating tumours, hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis, atherosclerosis and smooth muscle cell proliferation in the blood vessels such as stenosis or restenosis following angioplasty. It is also useful in drug discovery and target validation, and can be utilised for diagnostics, therapeutics, prophylaxis and as research reagents and kits. The present sequence represents an oligonucleotide used in the examples of the present invention.

CC XX Sequence 20 BP; 4 A; 5 C; 7 G; 4 T; 0 U; 0 Other; SQ

Query Match 84.0%; Score 16.8; DB 1; Length 20; Best Local Similarity 90.0%; Pred. No. 5.5; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CCCATGGTCACATGGATGA 20

Db 1 CCCATGGTCAGGGATGA 20

RESULT 9

PT XX ADT78877 standard; DNA; 20 BP.

DE XX AC ADT78877; DT 27-JAN-2005 (first entry)

DE XX DE Antisense oligonucleotide (ISIS 330452) for human HIF1alpha.

DE XX KW Antisense therapy; human; hypoxia-inducible factor 1 alpha; hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha; hyperproliferative disorder; cancer; p53; angiogenic disorder; eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis; psoriasis; atherosclerosis; smooth muscle cell proliferation; blood vessel; restenosis; angioplasty; cytostatic; angiogenesis; ophthalmological; antiinflammatory; respiratory; vasotropic; ss. KW OS Homo sapiens.

DE XX PN US2004220393-A1.

DE XX PD 04-NOV-2004.

DE XX PF 21-NOV-2003; 2003US-00719370.

DE XX PR 23-NOV-2002; 2002US-00304126.

DE XX PA (WARD/) WARD D T. (DOB/) DOBIE K W. (MARC/) MARCUSON E G. (FREI/) FREIER S M.

DE XX PR 23-NOV-2002; 2002US-00304126.

DE XX PA (WARD/) WARD D T. (DOB/) DOBIE K W. (MARC/) MARCUSON E G. (FREI/) FREIER S M.

PT XX New antisense compound which inhibits the expression of hypoxia-inducible factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating hyperproliferative disorder, e.g. cancer carrying a p53 mutation.

PS XX Claim 92; SEQ ID NO 448; 195pp; English.

PT XX The present invention relates to antisense compounds targeted to nucleic acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound comprises an antisense oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of HIF1alpha and/or HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide. The present invention relates to antisense compounds targeted to nucleic acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound comprises an antisense oligonucleotide that specifically hybridises with the nucleic acid and inhibits the expression of HIF1alpha and/or HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide. The antisense oligonucleotide comprises at least one modified internucleoside linkage, preferably a phosphorothioate linkage. It also comprises at least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotide comprises at least one modified internucleoside linkage, preferably a phosphorothioate linkage. It also comprises at least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotides are useful for the treatment of diseases such as hyperproliferative disorders, e.g. cancer, preferably a cancer carrying a p53 mutation, or an angiogenic disorder that affects the eye. The compound is also useful for treating tumours, hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis, atherosclerosis and smooth muscle cell proliferation in the blood vessels such as stenosis or restenosis following angioplasty. It is also useful in drug discovery and target validation, and can be utilised for diagnostics, therapeutics, prophylaxis and as research reagents and kits. The present sequence represents an oligonucleotide used in the examples of the present invention.

CC XX Sequence 20 BP; 4 A; 5 C; 7 G; 4 T; 0 U; 0 Other; SQ

Query Match 80.0%; Score 16; DB 1; Length 20; Best Local Similarity 100.0%; Pred. No. 7.3; Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCTCATGGTCACATGG 16

Db 5 CCTCATGGTCACATGG 20

RESULT 10

PT XX ADT78879 standard; DNA; 20 BP.

DE XX AC ADT78879; DT 27-JAN-2005 (first entry)

DE XX DE Antisense oligonucleotide (ISIS 326743) for human HIF2alpha.

DE XX KW Antisense therapy; human; hypoxia-inducible factor 1 alpha; hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha; hyperproliferative disorder; cancer; p53; angiogenic disorder; eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis; psoriasis; atherosclerosis; smooth muscle cell proliferation; blood vessel; restenosis; angioplasty; cytostatic; angiogenesis; ophthalmological; antiinflammatory; respiratory; vasotropic; ss. KW OS Homo sapiens.

DE XX PN US2004220393-A1.

DE XX PD 04-NOV-2004.

DE XX PF 21-NOV-2003; 2003US-00719370.

DE XX PR 23-NOV-2002; 2002US-00304126.

DE XX PA (WARD/) WARD D T. (DOB/) DOBIE K W. (MARC/) MARCUSON E G. (FREI/) FREIER S M.

DE XX PR 23-NOV-2002; 2002US-00304126.

DE XX PA (WARD/) WARD D T. (DOB/) DOBIE K W. (MARC/) MARCUSON E G. (FREI/) FREIER S M.

PI Ward DT, Dobie KW, Marcusson EG, Preier SM;  
 XX DR  
 XX WPI; 2004-774955/76.

XX PT New antisense compound which inhibits the expression of hypoxia-inducible  
 PT factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating  
 PT hyperproliferative disorder, e.g. cancer carrying a p53 mutation.  
 XX  
 PS Claim 92; SEQ ID NO 450; 195pp; English.

XX CC The present invention relates to antisense compounds targeted to nucleic  
 acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or  
 hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound  
 comprises an antisense oligonucleotide that specifically hybridises with  
 the nucleic acid and inhibits the expression of HIF1alpha and/or  
 HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.  
 CC The antisense oligonucleotide comprises at least one modified  
 internucleoside linkage. Preferably a phosphorothioate linkage. It also  
 comprises at least one modified sugar moiety. The antisense oligonucleotide further  
 comprises at least one modified nucleobase, preferably a 2'-O-  
 methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further  
 comprises at least one modified nucleobase, preferably a 5'-  
 methylcytosine. The antisense oligonucleotides are useful for the  
 treatment of diseases such as hyperproliferative disorders, e.g. cancer,  
 preferably a cancer carrying a p53 mutation, or an angiogenic disorder  
 that affects the eye. The compound is also useful for treating tumours,  
 hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis,  
 atherosclerosis and smooth muscle cell proliferation in the blood vessels  
 such as stenosis or restenosis following angioplasty. It is also useful  
 in drug discovery and target validation and can be utilised for  
 diagnostics, therapeutics, prophylaxis and as research reagents and kits.  
 CC The present sequence represents an oligonucleotide used in the examples  
 of the present invention.

XX SQ Sequence 20 BP; 3 A; 5 C; 7 G; 5 T; 0 U; 0 Other;

XX Query Match 79.0%; Score 15.8; DB 1; Length 20;  
 Best Local Similarity 89.5%; Pred. No. 7, 9; Mismatches 0; Indels 0; Gaps 0;  
 Matches 17; Conservative 0;

Db QY 1 CCTCTATGTCATGTGATG 19  
 2 CCTCATGTCATGTGATG 20

RESULT 11

XX AAV13322; ID AAV13322 standard; DNA; 19 BP.

XX AC AAV13322; ID AAV13322 standard; DNA; 19 BP.

XX DT 30-JUN-2005 (first entry)

XX DE Antisense siRNA oligo that modulates human HIF1 expression seq 259.

XX KW ss; short interfering RNA; siRNA; gene silencing; RNA interference;  
 KW hypoxia inducible factor 1; cancer; hyperproliferation;  
 KW macular degeneration; diabetic retinopathy; cytostatic; ophthalmological;  
 KW antidiabetic; antisense.

XX OS Homo sapiens.

XX PN WO2005035759-A2.

XX PD 21-APR-2005.

XX PR 20-AUG-2004; 2004WO-US027294.

XX PR 20-AUG-2003; 2003US-049665P.

XX PR 23-OCT-2003; 2003US-00633059.

XX PR 24-NOT-2003; 2003US-00720448.

XX PR 03-DEC-2003; 2003US-00727780.

XX PR 14-JAN-2004; 2004US-00757803.

XX PR 10-FEB-2004; 2004US-0543480P.

XX PR 13-FEB-2004; 2004US-00780447.

XX PR 16-APR-2004; 2004US-00826966.

XX PR 30-APR-2004; 54US-0997777.

XX PR 24-MAY-2004; 54US-0996666.

XX PR (SIRN-) SIRNA THERAPEUTICS INC.

XX PT Usman N, McSwiggen J;

XX DR WPI; 2005-306364/31.

XX PT New chemically synthesized double stranded short interfering nucleic acid  
 molecule that directs cleavage of a hypoxia inducible factor 1 RNA via

V O 2 - e

PT RNA interference (RNAi), useful for modulating HIF1, its expression or  
 PT activity.  
 XX  
 PS Claim 33: SEQ ID NO 259; 189pp; English.  
 CC This invention relates to a novel chemically synthesized double stranded  
 CC short interfering nucleic acid strand (sRNA). Specifically, it refers to  
 CC siRNAs that direct cleavage of a hypoxia inducible factor 1 (HIF1) RNA via  
 RNA Interference (RNAi). In particular, the siRNAs may include short  
 CC and short hairpin RNA (shRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA)  
 CC and RNA. The present invention describes a sense strand of a double-stranded  
 CC siRNA that comprises a nucleotide sequence that is complementary to HIF1  
 CC RNA or a portion thereof, and where a second strand is the complementary  
 CC antisense siRNA strand. Note that the sense region is connected to the  
 CC antisense region via a polynucleotide linker molecule. Accordingly, these  
 CC siRNAs are useful in providing compositions for the treatment of traits,  
 CC diseases and conditions that respond to modulation of HIF1 expression,  
 CC namely cancer and proliferative conditions including macular  
 CC degeneration, diabetic retinopathy and other conditions associated with  
 CC hypoxia inducible proliferation. As such, these compositions exhibit  
 CC cytostatic, ophthalmological and antidiabetic activities. This  
 CC oligonucleotide sequence is an antisense siRNA strand that targets human  
 CC HIF1 RNA to modulate expression given in an exemplification of the  
 CC invention.  
 XX Sequence 19 BP; 7 A; 2 C; 6 G; 0 T; 4 U; 0 Other;  
 XX Best Local Similarity 70.0%; Score 14; DB 1; Length 19;  
 Matches 11; Conservative 3; Mismatches 0; Indels 0; Gaps 0;  
 SQ Query Match 70.0%; Score 14; DB 1; Length 19;  
 QY 7 GTCACATGGAGA 20  
 Db 1 GGCACAUAGGAGA 14  
 RESULT 13  
 DT ADZ5791/C  
 ID ADZ57911 standard; RNA; 19 BP.  
 XX  
 AC ADZ57911;  
 XX  
 DT 30-JUN-2005 (first entry)  
 XX  
 DE Sense siRNA oligo that modulates human HIF1 expression seq 39.  
 XX  
 KW ss: short interfering RNA; siRNA; gene silencing; RNA interference;  
 KW hypoxia inducible factor 1; cancer; hyperproliferation; RNAi;  
 KW macular degeneration; diabetic retinopathy; cytostatic; ophthalmological;  
 KW antidiabetic.  
 XX  
 OS Homo sapiens.  
 PN WO2005035739-A2.  
 XX  
 PD 21-APR-2005.  
 XX  
 PF 20-AUG-2004; 2004WO-US027294.  
 XX  
 PR 20-AUG-2003; 2003US-0496655P.  
 PR 23-OCT-2003; 2003US-06693059.  
 PR 24-NOV-2003; 2003US-0072048.  
 PR 03-DEC-2003; 2003US-00727780.  
 PR 14-JAN-2004; 2004US-00757803.  
 PR 10-FEB-2004; 2004US-0543480P.  
 PR 13-FEB-2004; 2004US-00780447.  
 PR 16-APR-2004; 2004US-00826966.  
 PR 30-APR-2004; 54US-09997777.  
 PR 24-MAY-2004; 54US-09996666.  
 XX  
 PA (SIRN-) SIRNA THERAPEUTICS INC.  
 XX

PT Usman N, Mcswiggen J;  
 PI XX  
 DR WPI; 2005-306364/31.  
 XX  
 PT New chemically synthesized double stranded short interfering nucleic acid  
 molecule that directs cleavage of a hypoxia inducible factor 1 RNA via  
 RNA interference (RNAi), useful for modulating HIF1, its expression or  
 PT activity.  
 XX  
 PS Claim 33; SEQ ID NO 39; 189pp; English.  
 XX  
 CC This invention relates to a novel chemically synthesized double stranded  
 CC siRNA that comprises a nucleotide sequence that is complementary to HIF1  
 CC RNA or a portion thereof, and where a second strand is the complementary  
 CC antisense siRNA strand. Note that the sense region is connected to the  
 CC antisense region via a polynucleotide linker molecule. Accordingly, these  
 CC siRNAs are useful in providing compositions for the treatment of traits,  
 CC diseases and conditions that respond to modulation of HIF1 expression,  
 CC namely cancer and proliferative conditions including macular  
 CC degeneration, diabetic retinopathy and other conditions associated with  
 CC hypoxia inducible proliferation. As such, these compositions exhibit  
 CC cytostatic, ophthalmological and antidiabetic activities. This  
 CC oligonucleotide sequence is a sense siRNA strand that targets human HIF1  
 CC RNA to modulate expression given in an exemplification of the invention.  
 XX Sequence 19 BP; 4 A; 6 C; 2 G; 0 T; 7 U; 0 Other;  
 XX  
 DE Sense siRNA oligo that modulates human HIF1 expression seq 39.  
 XX  
 KW ss: short interfering RNA; siRNA; gene silencing; RNA interference;  
 KW hypoxia inducible factor 1; cancer; hyperproliferation; RNAi;  
 KW macular degeneration; diabetic retinopathy; cytostatic; ophthalmological;  
 KW antidiabetic.  
 XX  
 OS Homo sapiens.  
 PN WO2005035739-A2.  
 XX  
 PD 21-APR-2005.  
 XX  
 PF 20-AUG-2004; 2004WO-US027294.  
 XX  
 PR 20-AUG-2003; 2003US-0496655P.  
 PR 23-OCT-2003; 2003US-06693059.  
 PR 24-NOV-2003; 2003US-0072048.  
 PR 03-DEC-2003; 2003US-00727780.  
 PR 14-JAN-2004; 2004US-00757803.  
 PR 10-FEB-2004; 2004US-0543480P.  
 PR 13-FEB-2004; 2004US-00780447.  
 PR 16-APR-2004; 2004US-00826966.  
 PR 30-APR-2004; 54US-09997777.  
 PR 24-MAY-2004; 54US-09996666.  
 XX  
 PA (MOLE-) MOLECULAR ENGINES LAB.  
 XX  
 PI Telerman A, Amnon R, Tuijnder M;  
 XX  
 DR WPI; 2003-313353/30.

PT New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.  
 PT  
 XX  
 BS disclosure; Page 510; 720pp; French.  
 XX  
 CC The invention relates to a novel isolated 17 mer nucleic acid sequence, given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti) sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequence represents a tumour suppression related human fukutin oligonucleotide of the invention  
 XX  
 SQ sequence 17 BP; 4 A; 4 C; 3 G; 6 T; 0 U; 0 Other;  
 Query Match 64.0%; Score 12.8; DB 1; Length 17;  
 Best Local Similarity 87.5%; Pred. No. 16; Mismatches 0; Indels 2; Gaps 0;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 3 TCTATGGTCACATGGAT 18  
 DB 17 TCAAGGTCAAATGGAT 2  
 RESULT 15  
 ID ADW14071/C  
 ID ADW14071 standard; DNA; 18 BP.  
 XX  
 AC ADW14071;  
 XX  
 DT 07-APR-2005 (first entry)  
 XX  
 DB KCNMA1 exon 1B sense PCR primer, SEQ ID 3.  
 XX  
 KW Nootropic; autism; potassium channel; KCNMA1; PCR; primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN FR285452-A1.  
 XX  
 PD 14-JAN-2005.  
 XX  
 PP 11-JUL-2003; 2003FR-00008527.  
 XX  
 (UYRA-) UNTV RABBLAIS FRANCOIS.  
 XX  
 PI Briault S, Laumonier F, Le Guennec JY, Roger S;  
 XX  
 DR MPI; 2005-114499/13.  
 XX  
 PT Test for identifying autism, comprises detecting reduction in activity of calcium-dependent potassium channels by measuring the electrical activity of the channels.  
 XX  
 PS Example 1; SEQ ID NO 3; 42pp; French.

XX  
 CC The present invention relates to a test for detecting autism, which comprises measuring the electrical activity of calcium-dependent potassium channels (BKCa) in a sample of blood cells and detecting any reduction in activity, relative to a control sample. Also claimed are: CC  
 CC selecting a subpopulation of patients with autism by performing the new CC method and selecting subjects with reduced BKCa activity; and use of CC activators or agonists of BKCa to prepare a composition for treating CC autism where this is associated with deficient electrical activity. The CC method is useful for autism diagnosis and prognosis and to identify a CC subset of autism patients who may benefit from treatment with activators CC or agonists (X) of BKCa, i.e. patients where autism is linked to a CC defective electrical activity. In an example from the invention, a CC translocation in the potassium channel KCNMA1 gene in a six year old CC patient with autism was detected and characterized using PCR primers CC ADW14071-ADW14128. The KCNMA1 gene encodes a protein of the glutaminergic CC complex, and mutation of the KCNMA1 gene resulting in inadequate CC functioning of BKCa. The translocation was (16, XI, t(1;10)(q23;q21)), CC and amplification tests showed that, in the patient, one copy of the CC KCNMA1 was inactivated.  
 XX  
 SQ sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;  
 Query Match 64.0%; Score 12.8; DB 1; Length 18;  
 Best Local Similarity 87.5%; Pred. No. 18; Mismatches 0; Indels 2; Gaps 0;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 4 CAGGTGACATGGATG 19  
 DB 16 CAGGTGACCGGGATG 1  
 RESULT 16  
 ID ASN07620/C  
 ID ASN07620 standard; DNA; 17 BP.  
 XX  
 AC ASN07620;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMPL-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:7612.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMPL-1; hGDMPL-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200192524-A2.  
 XX  
 PD 06-DEC-2001.  
 XX  
 PP 25-MAY-2001; 2001WO-US016981.  
 XX  
 PR 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2001; 2000US 0234687P.  
 PR 27-SEP-2000; 2000US 0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US006651.  
 PR 30-JAN-2001; 2001WO-US006652.  
 PR 30-JAN-2001; 2001WO-US006653.  
 PR 30-JAN-2001; 2001WO-US006654.  
 PR 30-JAN-2001; 2001WO-US006655.  
 PR 30-JAN-2001; 2001WO-US006656.  
 PR 30-JAN-2001; 2001WO-US006657.  
 PR 30-JAN-2001; 2001WO-US006658.  
 PR 30-JAN-2001; 2001WO-US006659.  
 PR 30-JAN-2001; 2001WO-US006670.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX  
 PA (AEOM-) ASOMICA INC.

PI	Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;	XX	XX
XX		XX	XX
DR		XX	XX
WPI;	2002-179446/23.		
XX			
PT	New polypeptide, for raising antibodies that recognize hGMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGMLP-1.	XX	XX
XX			
PS	Disclosure; SEQ ID NO 7612; 214pp; English.	XX	XX
XX			
CC	The present invention describes a human genome-derived myosin-like protein 1 (hGMLP-1). The protein and polynucleotide sequences of hGMLP-1 can be used in gene therapy and vaccine production. The hGMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGMLP-1 may be used for diagnosing a disorder associated with the expression of hGMLP-1, in particular heart and skeletal muscle disorders. hGMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGMLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at <a href="http://ftp.wipo.int/pub/published/pct_sequence">ftp.wipo.int/pub/published/pct_sequence</a>	XX	XX
CC			
CC	Sequence 17 BP; 3 A; 4 C; 5 G; 5 T; 0 U; 0 Other;	XX	XX
CC	Query Match 61.0%; Score 12.2; DB 1; Length 17; Best Local Similarity 82.4%; Pred. No. 20; Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	XX	XX
Qy	1 CCTCATGGTCACTGGA 17	XX	XX
Db	17 CCTCAAGGTCACTGGTA 1	XX	XX
XX			
RESULT 17			
ACN12001			
ID	ACN12001 standard; RNA; 17 BP.	XX	XX
XX			
AC	ACN12001;	XX	XX
XX			
DE	22-APR-2004 (first entry)	XX	XX
XX			
DE	WAV minus strand Inozyme substrate SEQ ID NO 12004.	XX	XX
XX			
KW	WNV; West Nile Virus; antiinflammatory; cytostatic; hepatotoxic; virucide; neuroprotective; antibacterial; replication; gancratis; encephalitis; myocarditis; meningitis; infection; hepatitis; liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme; Amberzyme; Zinzyme; Bb.	XX	XX
XX			
OS	West Nile Virus.	OS	OS
XX			
PR	19-OCT-2001; 2001WO-US048350.	PN	US2004137589-A1.
XX			
PR	WO200268637-A2.	PD	15-JUL-2004.
XX			
PD	06-SEP-2002.	PF	26-NOV-2003; 2003US-00723361.
XX			
PR		PR	26-MAY-2000; 2000US-0207456P.
PR		PR	21-SEP-2000; 2000US-0234679P.
PR		PR	27-SEP-2000; 2000US-0236359P.
PR		PR	04-OCT-2000; 2000GB-0024263.
PR		PR	30-JAN-2001; 2001WO-US000661.
PR		PR	30-JAN-2001; 2001WO-US000662.
PR		PR	30-JAN-2001; 2001WO-US000663.
PR		PR	30-JAN-2001; 2001WO-US000664.
PR		PR	30-JAN-2001; 2001WO-US000665.
PR		PR	30-JAN-2001; 2001WO-US000666.
PR		PR	30-JAN-2001; 2001WO-US000667.
PR		PR	30-JAN-2001; 2001WO-US000668.
PR		PR	30-JAN-2001; 2001WO-US000669.
PA	(RIBO-) RIBOZYME PHARM INC.	PA	30-JAN-2001; 2001WO-2001WO-US000670.
PA	(BLATT/)	PA	(MCswiggen J A.
PA	(MCswiggen J A.	PA	

XX	Blatt L, Mcswiggen JA;
XX	WPI; 2002-706994/76.
DR	New nucleic acid molecule that modulates replication of West Nile Virus (WNV), useful for treating a condition related to WNV infection e.g. pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX	Claim 23; SEQ ID NO 12004; 495pp; English.
PS	
XX	The invention relates to nucleic acid molecules that modulate replication of the West Nile Virus (WNV). The nucleic acid molecules are useful for treating a condition related to WNV infection e.g. pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid molecule is selected from the group of ribozymes consisting of Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The nucleic acid molecules further comprise at least five ribose residues, at least ten 2'-O-methyl modifications, phosphorothioate linkages on at least three of the 5' terminal nucleotides and a 3' end modification of a 3'-3', inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080 are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given in the specification. The present sequence is that of a nucleic acid molecule of the invention
XX	Sequence 17 BP; 4 A; 5 C; 2 G; 0 T; 6 U; 0 Other;
XX	Query Match 61.0%; Score 12.2; DB 1; Length 17; Best Local Similarity 52.9%; Pred. No. 20; Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;
Qy	3 TCTGGTACATGGATG 19
Db	1 UCAUCUCCACAUCAUGA 17
XX	
RESULT 18	
XX	ACN70710/C
ID	ACN70710 standard; DNA; 17 BP.
XX	
AC	ACN70710;
XX	
DT	02-DEC-2004 (first entry)
XX	
DE	Human GMLP-1 probe SEQ ID NO:7612.
XX	
KW	Human; ss; probe; myosin-like protein-1; hGMLP-1; hGMLP-1 agonist; hGMLP antagonist; hGMLP inhibitor; heart disorder; skeletal muscle function.
XX	
OS	Homo sapiens.
XX	
PN	US2004137589-A1.
XX	
PD	15-JUL-2004.
XX	
PF	26-NOV-2003; 2003US-00723361.
XX	
PR	26-MAY-2000; 2000US-0207456P.
PR	
PR	21-SEP-2000; 2000US-0234679P.
PR	
PR	27-SEP-2000; 2000US-0236359P.
PR	
PR	04-OCT-2000; 2000GB-0024263.
PR	
PR	30-JAN-2001; 2001WO-US000661.
PR	
PR	30-JAN-2001; 2001WO-US000662.
PR	
PR	30-JAN-2001; 2001WO-US000663.
PR	
PR	30-JAN-2001; 2001WO-US000664.
PR	
PR	30-JAN-2001; 2001WO-US000665.
PR	
PR	30-JAN-2001; 2001WO-US000666.
PR	
PR	30-JAN-2001; 2001WO-US000667.
PR	
PR	30-JAN-2001; 2001WO-US000668.
PR	
PR	30-JAN-2001; 2001WO-US000669.
PA	30-JAN-2001; 2001WO-2001WO-US000670.

PR 05-FEB-2001; 2001US-02666860P.  
 PR 25-MAY-2001; 2001US-02866108.  
 XX  
 PA (GUYY/) GU Y.  
 PA (JUYY/) JI Y.  
 PA (PENN/) PENN S. G.  
 PA (HANZ/) HANZEL D K.  
 PA (RANK/) RANK D.  
 PA (CHEN/) CHEN W.  
 PA (SHAN/) SHANNON M B.  
 XX  
 PI Gu Y., JI Y., Penn SG., Hanzel DK., Rank D., Chen W., Shannon MB.,  
 XX  
 DR WPI; 2004-533378/51.  
 XX  
 PT Novel myosin-like protein-1, useful for treating or preventing disorder  
 PT associated with decreased expression or activity of human genome-derived  
 PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle  
 PT function.  
 XX  
 PS Disclosure; SEQ ID NO 7612; OPP; English.  
 XX  
 CC The invention relates to a novel polypeptide (I) comprising a sequence  
 CC (S1) of myosin-like protein-1 (hGDPMP-1) having 2560 amino acids fully  
 CC defined in the specification, a fragment of at least 8 amino acids of  
 CC (S1), 95% deviation from (S1) which are conservative substitutions, and  
 CC 65% identity to (S1). A polypeptide of the invention acts as a agonist or  
 CC antagonist of hGDPMP-1, or as an inhibitor of hGDPMP-1 activity. A  
 CC pharmaceutical composition of the invention is useful for treating or  
 CC preventing a disorder associated with decreased expression or activity of  
 CC hGDPMP-1, such as a disorder of heart and/or skeletal muscle function.  
 CC The present sequence represents a 17-mer nucleotide used in the  
 CC invention for scanning the sequence represented in ACN63103  
 XX Sequence 17 BP; 3 A; 4 C; 5 G; 5 T; 0 U; 0 Other;  
 CC Best Local Similarity 82.4%; Pred. No. 20;  
 CC Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 XX  
 OY 1 CCGTCATGGTACAGTGGGA 17  
 Db 17 CCCTCAAGGTCAACAGGTA 1  
 RESULT 19  
 AAF51883/C  
 ID AAF51883 Standard; DNA; 15 BP.  
 XX  
 AC AAF51883;  
 XX  
 DT 30-MAR-2001 (first entry)  
 DR IGF-I oligonucleotide #2843.  
 XX  
 Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilariis;  
 KW growth factor mediated cell proliferation; ichthyosis; psoriasis; sclerotic disease;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hyperneovascular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200078341-A1.  
 XX  
 PD 28-DEC-2000.  
 XX  
 PR 21-JUN-2000; 2000WO-AU000693.  
 XX  
 PR 21-JUN-1999; 99US-0140345P.  
 XX  
 PR 21-JUN-2000; 2000WO-AU000693.  
 XX  
 PI Wraight CJ, Weather GA, Edmondson SR;

XX  
 PA (MURD-) MURDOCH CHILDRENS RES INST.  
 XX  
 PA Wraight CJ, Weather GA, Edmondson SR;  
 XX  
 DR WPI; 2001-041421/05.  
 XX  
 PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
 PT inhibits or reduces growth factor mediated cell proliferation and/or  
 PT inflammation.  
 XX  
 PS Example 8; Page 79; 201PP; English.  
 XX  
 CC The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation,  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, pityriasis, ruba, pilais, seborrhoea, keloids, keratosis,  
 CC neoplasia, scleroderma, warts, benign, seborrhoea, cancers of the skin, a  
 CC hyperneovascular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia  
 XX Sequence 15 BP; 4 A; 5 C; 1 G; 5 T; 0 U; 0 Other;  
 CC Best Local Similarity 59.0%; Score 11.8; DB 1; Length 15;  
 CC Matches 13; Conservative 6; Mismatches 2; Indels 0; Gaps 0;  
 XX  
 OY 6 TGGTCAGATGGTGA 20  
 Db 15 TGTACGATGGTGA 1  
 RESULT 20  
 AAF51884/C  
 ID AAF51884 standard; DNA; 15 BP.  
 XX  
 AC AAF51884;  
 XX  
 DT 30-MAR-2001 (first entry)  
 DR IGF-I oligonucleotide #2844.  
 XX  
 Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilariis;  
 KW growth factor mediated cell proliferation; ichthyosis; psoriasis; sclerotic disease;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hyperneovascular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200078341-A1.  
 XX  
 PD 28-DEC-2000.  
 XX  
 PR 21-JUN-2000; 2000WO-AU000693.  
 XX  
 PR 21-JUN-1999; 99US-0140345P.  
 XX  
 PR (MURD-) MURDOCH CHILDRENS RES INST.  
 XX  
 PI Wraight CJ, Weather GA, Edmondson SR;

WPI; 2001-041421/05.

PT ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an anti-sense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation.

XX

PS Example 8; Page 79; 201pp; English.

CC The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an anti-sense oligonucleotide, (for insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or [IGFBP3], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the anti-sense oligonucleotides of the present invention (see AAF511 and AAF5153-FA5161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilars, seborrhoea, keloids, keratoses, neoplasias, scleroderma, warts, benign, growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia

XX

SQ Sequence 15 BP; 4 A; 5 C; 1 G; 5 T; 0 U; 0 Other;

Query	Match	Score	DB	Length	1;
ATGGCACATGATG	5	59.0%	1;	15;	
ATGTCAGATGGAT	15	86.7%	0;	Mismatches	2;
				Indels	0;
				Gaps	0

QY Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0

Db

RESULT 21

ID AD259539\_C

ID AD259539 standard; DNA; 16 BP.

XX AC AD259539;

XX DT 30-JUN-2005 (first entry)

DE Hyperparathyroidism polymorphic detection VIC probe, SEQ ID 33.

KW secondary hyperparathyroidism; endocrine-gen.; antithyroid;

KW renal failure; nephrotopic; SNP detection; se; probe;

OS Synthetic.

XX

PN JP2005102601-A.

XX PD 21 - APR - 2005.

XX PF 30 - SEP - 2003; 2003JP - 00341015.

XX PR 30 - SEP - 2003; 2003JP - 00341015.

XX PA (HYUB-) HYUBITTO GENOMICS KK.

PA (JIKE-) UNIV JIKEI.

XX DR WPI; 2005-358641/37.

XX

PT Testing secondary hyperparathyroidism in chronic renal failure patient, PT involves detecting variation in gene chosen from CACNA1C, CACRL1, CHI3L1, EGF, FGF1, GFRAL, GPR56 and GPRK6.

PT Disclosure; SEQ ID NO 33; 138PP; Japanese.

PS The invention relates to a novel method for testing secondary hyperparathyroidism in a chronic renal failure patient. The method

CC

CC	involves detecting a variation in a gene chosen from CACNA1C, CALCR, CHI3L1, EGR, FGF1, GFRAL, GPR56, GPRK5, IL10RA, IL10RB, IL11RB1, KCNJ14, KRNOL, ORC1L4, PDGFR, SCYB14, SLC12A1, SLC2A3, TGFBR3, TWEM1, CALCR, IL11R, OSF1, FGF6, HGF, MET, TGFBI and VEGF, or detecting the base in a polymorphism region existing in the vicinity of any one of the genes. The invention further comprises a reagent or kit for testing secondary hyperparathyroidism in a chronic renal failure patient. This polymorphism region sequence represents a probe used in the detection of a polymorphism in a gene linked to secondary hyperparathyroidism of the invention.
CC	Sequence 16 BP; 4 A; 5 C; 3 G; 4 T; 0 U; 0 Other;
CC	Query Match 59.0%; Score 11.8; DB 1; Length 16;
CC	Best Local Similarity 86.7%; Pred. No. 20;
CC	Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY	3 TCATGGTCACATGGA 17
Db	16 TCTTGCGTCACAGGGA 2
RESULT 22	
ID	AD259706/C
ID	AD259706 Standard; DNA; 16 BP.
XX	
AC	AD259706;
XX	
DT	30-JUN-2005 (first entry)
XX	
DE	Hyperparathyroidism polymorphic detection VIC probe, SEQ ID 200.
XX	
KW	secondary hyperparathyroidism; endocrine-gen.; antithyroid;
XX	
KW	renal failure; nephrotopic; SNP detection; BS; probe.
OS	Synthetic.
XX	
PN	JP2005102601-A.
XX	
PD	21-APR-2005.
XX	
PR	30-SEP-2003; 2003JP-00341015.
XX	
PR	30-SEP-2003; 2003JP-00341015.
XX	
PA	(HYUBI- HYUBITTO GENOMICS KK.
PA	(JIKE- UNIV JIKEI.
XX	
DR	WPI; 2005-358641/37.
XX	
PT	Testing secondary hyperparathyroidism in chronic renal failure patient.
PT	involves detecting variation in gene chosen from CACNA1C, CALCR, CHI3L1, EGF, FGF1, GFRAL, GPR56 and GPRK6.
XX	
PS	Disclosure: SEQ ID NO 200; 138pp; Japanese.
XX	
CC	The invention relates to a novel method for testing secondary hyperparathyroidism in a chronic renal failure patient. The method involves detecting a variation in a gene chosen from CACNA1C, CALCR, CHI3L1, EGF, FGF1, GFRAL, GPR56, GPRK6, IL10RA, IL10RB, IL11RB1, KCNQ14, KCNQ1, ORC1L4, PDGFR, SCYB14, SLC12A1, SLC2A3, TGFBR3, TWEM1, CALCR, IL11R, OSF1, FGF6, HGF, MET, TGFBI and VEGF, or detecting the base in a polymorphism region existing in the vicinity of any one of the genes. The invention further comprises a reagent or kit for testing secondary hyperparathyroidism in a chronic renal failure patient. This polymonucleotide sequence represents a probe used in the detection of a polymorphism in a gene linked to secondary hyperparathyroidism of the invention.
CC	Sequence 16 BP; 4 A; 5 C; 3 G; 4 T; 0 U; 0 Other;
CC	Score 59.0%; Score 11.8; DB 1; Length 16;
SQ	Best Local Similarity 86.7%; Pred. No. 20;

Matches	13;	Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;	Db	1	UCAUGGUCAAGU	13
QY	3	TCATGGTCAGTGA	17							ID	ADM69289/c	:	:  :  :   : :
	ADG13603									ID	ADM69289	standard;	DNA; 15 BP.
XX	ADG13603	standard;	RNA;	15	BP.					AC	ADM69289;		
AC	ADG13603;									XX	03-JUN-2004	(first entry)	
XX										DT			
DB	Human	HER1-4	hammerhead	ribozyme	target	sequence	#3.			XX	Plant	gene polymorphism marker	related primer, SEQ ID 168.
XX	Human;	ss;	EGFR;	epidermal	growth	factor	receptor;	HER1;	HER2;	HER3;	XX	Primer;	variation mapping; mutation mapping; plant;
XX	HER4;	hammerhead	ribozyme;	inzyme;	zinczyme;	DNAzyme;	amberzyme;	cancer;			KW	gene polymorphism marker;	ss.
XX	brain	tumour;	cystrostatic;	short	interfering	RNA;	siRNA;	RNA	interference;		OS	Synthetic.	
XX	prostate	cancer;	colorectal	cancer;	brain	cancer;	esophageal	cancer;			JP2003189885-A.		
XX	stomach	cancer;	bladder	cancer;	pancreatic	cancer;	cervical	cancer;			PD	14-OCT-2003.	
XX	head	and	neck	cancer;	ovarian	cancer;	melanoma;	lymphoma;	glioma;		XX	PF	31-JAN-2003; 2003JP-00024620.
XX	multidrug	resistant	cancer.								XX	PR	01-FEB-2002; 2002JP-00025338.
OS	Homo	sapiens.									XX	PA	(RIKA ) RIKAGAKU KENKYUSHO.
XX											PA	(SAIM-) SAI MEDIA KK.	
XX											PA	(MITS/ ) MATSUI M.	
XX											PA	(NAKA/ ) NAKAZAWA M.	
PD	02-OCT-2003.										XX	DR	WPI; 2004-126231/13.
XX	PF	21-OCT-2002;	2002US-00277494.								XX	PT	A primer set and method useful for mapping at least the variation/mutation part of a plant gene using a gene polymorphism marker.
XX	PR	27-JAN-1997;	97US-00336749P.								XX	PT	The present invention relates to a primer set and method for mapping at least the variation/mutation part of a plant gene using a gene polymorphism marker.
PR	04-DEC-1997;	97US-00985152.									XX	RS	Claim 7; SEQ ID NO 168; 120pp; Japanese.
PR	22-SEP-1999;	99US-00401053.									XX	CC	The present invention relates to a primer set and method for mapping at least the variation/mutation part of a plant gene using a gene polymorphism marker. A mutation site of the plant gene is mapped by utilizing a genetic polymorphism marker as follows: (a) genomic DNA is prepared from a plant homozygously having a mutation to be an object of the mapping; (b) a forward primer 1 containing a base corresponding to the gene polymorphic marker of one ectotype plant, a forward primer 2 containing a base corresponding to the genetic polymorphism of the other ectotype plant and a reverse primer 3 based on the base sequence common with both the ectotype plants are prepared; (c) two kinds of oligonucleotides emitting fluorescence of different colors when the genetic polymorphism marker is detected are prepared; (d) an amplification reaction of the genomic DNA is carried out in the presence of the primers 1, 2 and 3 and the two kinds of the oligonucleotides; (e) the fluorescence intensity emitted from the resultant reactional product is detected and (f) the position on the genome of the mutation site is determined from the results of detection. The present sequence is a primer, used to illustrate the invention.
PR	03-MAY-2001;	2001US-00848754.									XX	CC	Sequence 16 BP; 2 A; 7 C; 3 G; 4 T; 0 U; 0 Other;
PR	25-JUL-2001;	2001US-00916466.									XX	CC	Query Match 57.0%; Score 11.4; DB 1; Length 16;
PA	(RIBO- ) RIBOZYME PHARM INC.										XX	CC	Best Local Similarity 92.3%; Pred. No. 23; Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX	PA	02-OCT-2003.									XX	CC	CC
XX	PT	Mcswiggen, J;									XX	CC	CC
XX	DR	WPI; 2004-032029/03.									XX	CC	CC
PS	Claim 7; SEQ ID NO 30; 113pp; English.										XX	CC	CC
XX	New double stranded short interfering ribonucleic acid molecule for inhibiting expression of epidermal growth factor receptor gene.										XX	CC	CC
PT	PT	PT									XX	CC	CC
XX	The invention relates to a double stranded short interfering RNA (siRNA) molecule that inhibits expression of epidermal growth factor receptor (EGFR) gene (e.g. HER1-4) by RNA interference is new. Also included is an expression vector comprising a nucleic acid sequence encoding siRNA molecule(s), in a manner that allows expression of the nucleic acid molecule. The siRNA molecules comprise hammerhead ribozymes, inzymes, amberzymes, zinczymes and DNazymes. The invention is used for inhibiting expression of EGFR. It can be used for treatment of cancer, prostate cancer, colorectal cancer, brain cancer, oesophageal cancer, stomach cancer, bladder cancer, pancreatic cancer, cervical cancer, head and neck cancer, ovarian cancer, melanoma, lymphoma, glioma, multidrug resistant cancer or a brain tumour. The invention has enhanced shelf-life, half-life in vitro, stability, and ease of introduction of oligonucleotide to target site. The present sequence is an EGFR/HER1-4 target sequence for an siRNA of the invention.										XX	CC	CC
XX	Sequence 15 BP; 4 A; 2 C; 3 G; 0 T; 6 U; 0 Other;										XX	CC	CC
QY	Query Match 57.0%; Score 11.4; DB 1; Length 15;										XX	CC	CC
Best Local Similarity 61.5%; Pred. No. 21; Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;	3 TCATGGTCAGTGA 15										XX	CC	CC
QY	RESULT 25										XX	CC	CC
	ADR7423/c										XX	CC	CC
	ADR7423										XX	CC	CC
	ADR7453 standard; DNA; 16 BP.										XX	CC	CC

AC ADR74253;

XX

DT 16-DEC-2004 (first entry)

DE Common primer B for human MI-associated marker hcv2633049.

XX

KW Human; ss; PCR; primer; SNP; single nucleotide polymorphism;

XX

OS Homo sapiens.

XX

PN WO2004081187-A2.

XX

PR 10-MAR-2003; 2003US-045315P.

XX

PR 30-APR-2003; 2003US-0466412P.

XX

PA (APPL-) APPLERA CORP.

XX

PJ Cargill M, Devlin JJ, Iakoubova O, Shiffman D;

XX

DR WPI; 2004-677537//66.

XX

PT Identifying an individual who has altered risk for developing myocardial infarction comprises detecting single nucleotide polymorphism (SNP), in the individual's nucleic acids.

XX

PS Claim 19; SEQ ID NO 44078; 139pp; English.

XX

CC The invention relates to identifying an individual who has altered risk for developing myocardial infarction comprises detecting single nucleotide polymorphism (SNP) in any one of the 43336 nucleotide sequences (not given in the specification), in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. Also included are an isolated nucleic acid molecule (comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP as cited above, or their complement), an isolated polypeptide comprising an amino acid sequence selected from any of the 696 amino acid sequences not defined in the specification, an antibody that specifically binds to the polypeptide (or its antigen-binding fragment), an amplified polynucleotide containing the SNP as cited (where the amplified polynucleotide is between about 16 and about 1,000 nucleotides in length), an isolated polynucleotide which specifically hybridises to a nucleic acid molecule containing the SNP, a probe for detecting SNP in a nucleic acid, detecting SNP in a nucleic acid molecule, detecting a variant polypeptide and identifying an agent useful in therapeutically or prophylactically treating myocardial infarction. The detection step of the method is carried out by a process selected from allele-specific probe hybridisation, allele-specific primer extension, allele-specific amplification, sequencing, 5' nuclease digestion, molecular beacon assay, oligonucleotide ligation assay, size analysis, and single-stranded conformation polymorphism. The method is useful for identifying an individual who has altered risk for developing myocardial infarction. The present sequence is common primer (used with an allele specific PCR primer) used to amplify an SNP-containing region from a myocardial infarction-associated marker gene. NOTE: SEQ IDs 1-43787 are not shown in the specification and are not available from WIPO.

CC These sequence are contained on a CD-R named CL001509CDR which has not been supplied with the specification.

XX

SQ Sequence 16 BP; 4 A; 6 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 56.0%; Score 11.2; DB 1; Length 16;

Best Local Similarity 81.2%; Pred. No. 25; Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CCTCATGTCACAGG 16

Db 16 CTTCATGGGCGCTGG 1

RESULT 26

ABK09404

ID ABK09404 standard; DNA; 15 BP.

XX

AC ABK09404;

XX

DT 14-MAR-2002 (first entry)

DE Human NPR1 gene allele-specific oligonucleotide sequencing primer #26.

XX

KW Human; natriuretic peptide receptor A/guanylate cyclase A; NPR1; ss; atrionatriuretic peptide receptor A; haplotyping; cytostatic; genotyping; haplotype pair; single nucleotide polymorphism; gene therapy; PCR primer; drug screening; hypertension; hypotensive; sequencing primer; probe.

XX

OS Homo sapiens.

XX

PN WO200179231-A2.

XX

PR 16-APR-2001; 2001WO-US012300.

XX

PD 25-OCT-2001.

XX

PR 14-APR-2000; 2000US-0197330P.

XX

PA (GENA-) GENAISANCE PHARM INC.

XX

PJ Bentivegna SC, Choi JY, Kliem SE, Nandabalan K;

XX

DR WPI; 2002-066340/09.

XX

PT Genotyping human natriuretic peptide receptor A/guanylate cyclase gene of an individual, involves determining identity of nucleotide pair at specific polymorphic sites for two copies of the gene.

XX

PS Claim 15; Page 14; 96pp; English.

CC The invention relates to single nucleotide polymorphisms in the gene encoding the human natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A) or NPR1 polypeptide. A method for haplotyping the NPR1 gene in an individual comprises identifying the nucleotide at one or more polymorphic sites and determining whether one of the copies of the gene is defined by one of the NPR1 haplotypes given in the specification or whether both copies are defined by a haplotype pair. This method is useful in genotyping, whereby all possible haplotype pairs can be assigned to specific genotypes. An association between a trait and a haplotype or haplotype pair of the NPR1 gene can be identified by comparing the frequency of the haplotype or haplotype pair in a population exhibiting the trait with the frequency of the haplotype or haplotype pair in a reference population, where a higher haplotype frequency in the trait population indicates the trait is associated with the haplotype or haplotype pair. NPR1 and its corresponding DNA are used for studying the expression and function of NPR1, for use in screening for candidate drugs to treat diseases related to NPR1 activity, such as hypertension. The sequences are also useful for studying the effect of variation on the biological activity of NPR1 as well as on the binding affinity of candidate drugs targeting NPR1. Sequences AAS9959-AAS9990 and ABK0930-ABK0962 represent probes, sequencing primers and PCR primers used to detect NPR1 gene polymorphisms.

CC Sequence 15 BP; 5 A; 4 C; 3 G; 2 T; 0 U; 1 Other;

CC

Query Match 55.0%; Score 11; DB 1; Length 15;

Best Local Similarity 84.6%; Pred. No. 24; Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CCTCATGTCACAT 14

Db 2 CTCAAGGTACAY 14

RESULT 27

ACI73850  
 ID ACI73850 standard; DNA; 15 BP.  
 XX  
 AC  
 XX  
 DT 16-JUN-2005 (first entry)  
 XX  
 DE SARS coronavirus right PCR primer, SEQ:631.  
 XX  
 KW Vaccine; nucleic acid vaccine; drug screening; diagnosis; virucide;  
 SARS coronavirus infection; infection; respiratory disease; virucide;  
 PCR; primer; ss.  
 OS SARS coronavirus.  
 PN WO2004092360-A2.  
 XX  
 PD 28-OCT-2004.  
 XX  
 PF 09-APR-2004; 2004WO-US011710.  
 XX  
 PR 10-APR-2003; 2003US-0462218P.  
 PR 11-APR-2003; 2003US-0462465P.  
 PR 12-APR-2003; 2003US-0462418P.  
 PR 13-APR-2003; 2003US-0462748P.  
 PR 14-APR-2003; 2003US-0463109P.  
 PR 15-APR-2003; 2003US-0463460P.  
 PR 16-APR-2003; 2003US-0463668P.  
 PR 17-APR-2003; 2003US-0463983P.  
 PR 18-APR-2003; 2003US-0463971P.  
 PR 22-APR-2003; 2003US-0464838P.  
 PR 22-APR-2003; 2003US-0464839P.  
 PR 23-APR-2003; 2003US-0465273P.  
 PR 24-APR-2003; 2003US-0465535P.  
 PR 05-MAY-2003; 2003US-0468312P.  
 PR 22-MAY-2003; 2003US-0473144P.  
 PR 14-AUG-2003; 2003US-0495044P.  
 PR 23-SEP-2003; 2003US-0505632P.  
 PR 11-OCT-2003; 2003US-0510781P.  
 PR 11-DEC-2003; 2003US-0529464P.  
 PR 12-JAN-2004; 2004US-0536177P.  
 PR 07-APR-2004; 2004US-0560757P.  
 XX  
 PA (CHIR ) CHIRON CORP.  
 XX  
 PI Rappuoli R, Masignani V, Stadler K, Gregersen J, Chien D, Han J;  
 PI Polo J, Weiner A, Houghton M, Song HC, Seo MY, Donnelly JJ;  
 PI Klenk HD, Valiante N;  
 XX  
 DR DR  
 XX  
 XX  
 PT Novel isolated polypeptide e.g. spike polypeptide, Env polypeptide, of  
 PT severe acute respiratory syndrome virus (SARS), useful as vaccine for  
 PT SARS.  
 XX  
 PS Claim 59; SEQ ID NO 631; 839PP; English.

The invention relates to isolated polypeptides of the severe acute respiratory syndrome (SARS) coronavirus. The polypeptides include spike (S or E), env (B or SM), membrane (M or E1), hemagglutinin-esterase (HE or E2), and nucleocapsid (N) polypeptides, and the ORF1a and ORF1ab (replicase) polypeptides and their proteolytic fragments. The invention also relates to antibodies which recognise the polypeptides, nucleic acids encoding the SARS virus polypeptides, primers specific for SARS virus nucleic acid sequences, kits for amplifying SARS virus target nucleic acids; a double-stranded RNA molecule 10-30 nucleotides in length which is able to inactivate the SARS virus in a mammalian cell; an expression construct for recombinant expression of a SARS virus spike protein; a viral vector for in vivo delivery of a SARS virus polypeptide-encoding nucleic acid; and a mammalian cell line stably expressing a SARS viral antigen. The invention additionally provides a vaccine for the treatment or prevention of SARS comprising an inactivated SARS virus, a killed SARS virus, an attenuated SARS virus, a split SARS virus

CC preparation, or at least one purified SARS virus antigens; methods of making inactivated SARS virus and vaccines containing it; an alpha-virus replicon particle comprising one or more SARS viral antigens; and a vaccine comprising one or more SARS virus antigens and one or more respiratory virus antigens. The invention further encompasses a method of identifying a therapeutically active agent by measuring the effect of the agent on a SARS-related enzyme, and a method of treating a SARS patient using small molecule viral inhibitors. The SARS virus polypeptides and nucleic acids can be used in the preparation and manufacture of vaccines for the treatment or prevention of SARS. The SARS virus polypeptides, antibodies against them, and SARS virus-specific primers and kits containing them are useful for diagnosing or identifying the presence of SARS in a biological sample. The present sequence represents a PCR primer for amplifying a SARS coronavirus gene. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp://wipo.int/pub/published\\_pct\\_sequences](ftp://wipo.int/pub/published_pct_sequences)

XX Sequence 15 BP; 3 A; 5 C; 3 G; 4 T; 0 U; 0 Other;

XX Query Match 55.0%; Score 11; DB 1; Length 15;  
 XX Best Local Similarity 100.0%; Pred. No. 24; Mismatches 0; Indels 0; Gaps 0;  
 XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX ACI73880  
 XX ACI73880;  
 XX DT 16-JUN-2005 (first entry)  
 XX DE SARS coronavirus right PCR primer, SEQ:661.  
 XX KW Vaccine; nucleic acid vaccine; drug screening; diagnosis;  
 SARS coronavirus infection; infection; respiratory disease; virucide;  
 PCR; primer; ss.  
 XX OS SARS coronavirus.  
 XX PN WO2004092360-A2.  
 XX PD 28-OCT-2004.  
 XX PF 09-APR-2004; 2004WO-US011710.  
 XX PR 10-APR-2003; 2003US-0462218P.  
 PR 11-APR-2003; 2003US-0462465P.  
 PR 12-APR-2003; 2003US-0462418P.  
 PR 13-APR-2003; 2003US-0462748P.  
 PR 14-APR-2003; 2003US-0463109P.  
 PR 15-APR-2003; 2003US-0463668P.  
 PR 17-APR-2003; 2003US-0463983P.  
 PR 18-APR-2003; 2003US-0463971P.  
 PR 22-APR-2003; 2003US-0464838P.  
 PR 22-APR-2003; 2003US-0464839P.  
 PR 23-APR-2003; 2003US-0465273P.  
 PR 24-APR-2003; 2003US-0465335P.  
 PR 05-MAY-2003; 2003US-0468312P.  
 PR 22-MAY-2003; 2003US-0473144P.  
 PR 14-AUG-2003; 2003US-0495044P.  
 PR 23-SEP-2003; 2003US-0505632P.  
 PR 11-OCT-2003; 2003US-0510781P.  
 PR 11-DEC-2003; 2003US-0529464P.  
 PR 12-JAN-2004; 2004US-0536177P.  
 PR 07-APR-2004; 2004US-0560757P.  
 XX

PA (CHIR ) CHIRON CORP.  
 XX  
 PT Rappuoli R, Massignani V, Stadler K, Gregersen J, Chien D, Han J;  
 PI Polo J, Weiner A, Houghton M, Song HC, Seo MY, Donnelly JJ;  
 PI Klenk HD, Valiante N;  
 XX  
 DR WPI; 2004-766863/75.

XX  
 PT Novel isolated polypeptide e.g. spike polypeptide, Env polypeptide, of  
 PT severe acute respiratory syndrome virus (SARS), useful as vaccine for  
 PT SARS.  
 XX  
 PS Claim 59; SEQ ID NO 661; 839pp; English.

CC The invention relates to isolated polypeptides of the severe acute  
 CC respiratory syndrome (SARS) coronavirus. The polypeptides include spike  
 CC (S or E2), env (E or SM), membrane (M or EI), hemagglutinin-esterase (HE  
 CC or E3), and nucleocapsid (N) polypeptides, and the ORFla and ORF1b  
 CC (replicase) polypeptides and their proteolytic fragments. The invention  
 CC also relates to antibodies which recognise the polypeptides, nucleic  
 CC acids encoding the SARS virus polypeptides; primers specific for SARS  
 CC virus nucleic acid sequences; kits for amplifying SARS virus target  
 CC nucleic acids; a double-stranded RNA molecule 10-30 nucleotides in length  
 CC which is able to inactivate the SARS virus in a mammalian cell; an  
 CC expression construct for recombinant expression of a SARS virus spike  
 CC protein; a viral vector for in vivo delivery of a SARS virus polypeptide-  
 CC encoding nucleic acid; and a mammalian cell line stably expressing a SARS  
 CC viral antigen. The invention additionally provides a vaccine for the  
 CC treatment or prevention of SARS comprising an inactivated SARS virus, a  
 CC killed SARS virus, an attenuated SARS virus, a split SARS virus  
 CC preparation, or at least one purified SARS virus antigen; methods of  
 CC making inactivated SARS virus and vaccines containing it; an alpha-virus  
 CC replicon particle comprising one or more SARS viral antigens; and a  
 CC vaccine comprising one or more SARS virus antigens and one or more  
 CC respiratory virus antigens. The invention further encompasses a method of  
 CC identifying a therapeutically active agent by measuring the effect of the  
 CC agent on a SARS-related enzyme, and a method of treating a SARS patient  
 CC using small molecule viral inhibitors. The SARS virus polypeptides and  
 CC nucleic acids can be used in the preparation and manufacture of vaccines  
 CC for the treatment or prevention of SARS. The SARS virus polypeptides,  
 CC antibodies against them, and SARS virus-specific primers and kits  
 CC containing them are useful for diagnosing or identifying the presence of  
 CC SARS in a biological sample. The present sequence represents a PCR primer  
 CC for amplifying a SARS coronavirus gene. Note: The sequence data for this  
 CC patent did not form part of the printed specification, but was obtained  
 CC in electronic format directly from WIPO at  
 CC [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences)

XX SQ Sequence 15 BP; 3 A; 5 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 55.0%; Score 11; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 24; Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC QY 2 CTCATGGTCAC 12  
 CC 1 ||||| ||||| 11  
 CC Db

RESULT 29  
 ACT73792  
 ID ACT73792 standard; DNA; 15 BP.  
 XX  
 AC ACT73792;  
 XX  
 DT 16-JUN-2005 (first entry)

XX SARS coronavirus right PCR primer, SEQ 573.  
 XX vaccine; nucleic acid vaccine; drug screening; diagnosis;  
 XX SARS coronavirus infection; infection; respiratory disease; virucide;  
 KW PCR; primer; ss.  
 XX

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OS SARS coronavirus.  
 XX  
 PN WO2004092360-A2.  
 XX  
 PD 28-OCT-2004.  
 XX  
 PR 09-APR-2004; 2004WO-US01710.  
 XX  
 PR 10-APR-2003; 2003US-0462218P.  
 PR 11-APR-2003; 2003US-0462465P.  
 PR 12-APR-2003; 2003US-0462418P.  
 PR 13-APR-2003; 2003US-0462748P.  
 PR 14-APR-2003; 2003US-0463109P.  
 PR 15-APR-2003; 2003US-0463460P.  
 PR 16-APR-2003; 2003US-0463668P.  
 PR 17-APR-2003; 2003US-0463883P.  
 PR 18-APR-2003; 2003US-0463971P.  
 PR 19-APR-2003; 2003US-0464078P.  
 PR 20-APR-2003; 2003US-0464399P.  
 PR 21-APR-2003; 2003US-0464599P.  
 PR 22-APR-2003; 2003US-0464938P.  
 PR 23-APR-2003; 2003US-0465273P.  
 PR 24-APR-2003; 2003US-0465335P.  
 PR 05-MAY-2003; 2003US-0468312P.  
 PR 22-MAY-2003; 2003US-0473144P.  
 PR 23-AUG-2003; 2003US-0495024P.  
 PR 23-SEP-2003; 2003US-0505052P.  
 PR 11-OCT-2003; 2003US-0510781P.  
 PR 11-DEC-2003; 2003US-0529464P.  
 PR 12-JAN-2004; 2004US-0536177P.  
 PR 07-APR-2004; 2004US-0560757P.

XX PA (CHIR ) CHIRON CORP.  
 XX  
 PT Rappuoli R, Massignani V, Stadler K, Gregersen J, Chien D, Han J;  
 PI Polo J, Weiner A, Houghton M, Song HC, Seo MY, Donnelly JJ;  
 PI Klenk HD, Valiante N;  
 XX  
 DR WPI; 2004-766863/75.

XX  
 PT Novel isolated polypeptide e.g. spike polypeptide, Env polypeptide, of  
 PT severe acute respiratory syndrome virus (SARS), useful as vaccine for  
 PT SARS.  
 XX  
 PS Claim 59; SEQ ID NO 573; 839pp; English.

CC The invention relates to isolated polypeptides of the severe acute  
 CC respiratory syndrome (SARS) coronavirus. The Polypeptides include spike  
 CC (S or E2), env (E or SM), membrane (M or EI), hemagglutinin-esterase (HE  
 CC or E3), and nucleocapsid (N) polypeptides, and the ORFla and ORF1b  
 CC (replicase) polypeptides and their proteolytic fragments. The invention  
 CC also relates to antibodies which recognise the polypeptides; primers specific for SARS  
 CC virus nucleic acid sequences; kits for amplifying SARS virus target  
 CC nucleic acids; a double-stranded RNA molecule 10-30 nucleotides in length  
 CC which is able to inactivate the SARS virus in a mammalian cell; an  
 CC expression construct for recombinant expression of a SARS virus spike  
 CC protein; a viral vector for in vivo delivery of a SARS virus polypeptide-  
 CC encoding nucleic acid; and a mammalian cell line stably expressing a SARS  
 CC viral antigen. The invention additionally provides a vaccine for the  
 CC treatment or prevention of SARS comprising an inactivated SARS virus, a  
 CC killed SARS virus, an attenuated SARS virus, a split SARS virus  
 CC preparation, or at least one purified SARS virus antigens; methods of  
 CC making inactivated SARS virus and vaccines containing it; an alpha-virus  
 CC replicon particle comprising one or more SARS viral antigens; and a  
 CC vaccine comprising one or more SARS virus antigens and one or more  
 CC respiratory virus antigens. The invention further encompasses a method of  
 CC identifying a therapeutically active agent by measuring the effect of the  
 CC agent on a SARS-related enzyme, and a method of treating a SARS patient  
 CC using small molecule viral inhibitors. The SARS virus polypeptides and  
 CC nucleic acids can be used in the preparation and manufacture of vaccines  
 CC for the treatment or prevention of SARS. The SARS virus polypeptides,  
 CC antibodies against them, and SARS virus-specific primers and kits  
 CC containing them are useful for diagnosing or identifying the presence of  
 CC SARS in a biological sample. The present sequence represents a PCR primer

CC for amplifying a SARS coronavirus gene. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences)

CC

RESULT 30  
 Query Match 55.0%; Score 11; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 24;  
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 2 CTCATGGTCA 12  
 Db 4 CTCATGGTCA 14

RESULT 31  
 Query Match 55.0%; Score 11; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 24;  
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 2 CTCATGGTCA 12  
 Db 4 CTCATGGTCA 14

RESULT 31  
 Query Match 55.0%; Score 11; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 24;  
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 2 CTCATGGTCA 12  
 Db 4 CTCATGGTCA 14

RESULT 32  
 Query Match 54.0%; Score 10.8; DB 1; Length 14;  
 Best Local Similarity 85.7%; Pred. No. 22;  
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

XX IGF-I oligonucleotide #2845.  
 DE  
 XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
 KW growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hypernevacular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.  
 XX OS Homo sapiens.  
 XX WO20078341-A1.  
 XX 21-JUN-2000; 2000WO-AU000693.  
 XX 21-JUN-1999; 99US-0140345P.  
 XX (MURD-) MURDOCH CHILDRENS RES INST.  
 XX PT Wright CJ, Werther GA, Edmondson SR;  
 XX DR  
 XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
 PT inhibits or reduces growth factor mediated cell proliferation and/or  
 PT inflammation.  
 PS Example 8; Page 79; 201pp; English.  
 XX The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation and/or  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide of the present invention (see AAP45151 and AAP45153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, pityriasis, ruba, pilaris, seborrhoea, keloids, keratosis,  
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
 CC hypernevacular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia.  
 SQ Sequence 15 BP; 4 A; 5 C; 1 G; 5 T; 0 U; 0 Other;  
 XX Best Local Similarity 85.7%; Pred. No. 25; Length 15;  
 XX Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 5 ATGGTCACGTGGAT 18  
 DB 14 ATGATCAGATGGAT 1  
 RESULT 33  
 AAP5182/C  
 ID AAP5182 Standard; DNA; 15 BP.  
 AC  
 XX AAP5182;  
 XX 30-MAR-2001 (first entry)  
 XX IGF-I oligonucleotide #2842.  
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;

XX cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
 KW growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hypernevacular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.  
 XX OS Homo sapiens.  
 XX WO20078341-A1.  
 XX 28-DEC-2000.  
 XX 21-JUN-2000; 2000WO-AU000693.  
 XX 21-JUN-1999; 99US-0140345P.  
 XX PT Wright CJ, Werther GA, Edmondson SR;  
 XX DR  
 XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
 PT inhibits or reduces growth factor mediated cell proliferation and/or  
 PT inflammation.  
 PS Example 8; Page 79; 201pp; English.  
 XX The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation and/or  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAP45151 and AAP45153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, pityriasis, ruba, pilaris, seborrhoea, keloids, keratosis,  
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
 CC hypernevacular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia.  
 SQ Sequence 15 BP; 3 A; 5 C; 1 G; 6 T; 0 U; 0 Other;  
 Query Match 54.0%; Score 10.8; DB 1; Length 15;  
 Best Local Similarity 85.7%; Pred. No. 25; Length 15;  
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 7 GGTCACGTGGATCA 20  
 DB 15 GATCAGATGGATCA 2  
 RESULT 34  
 ABK32412  
 ID ABK32412 Standard; DNA; 15 BP.  
 XX  
 AC ABK32412;  
 XX 23-APR-2002 (first entry)  
 DE Human colon cancer SAGE tag #533.  
 XX Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;  
 KW serial analysis of gene expression; diagnostic; prognostic; probe;  
 KW cancer marker; ss.  
 XX OS Homo sapiens.



CC means for comprehensive understanding of the frequency and position of mutations in an organism. This sequence corresponds to an extended hairpin tail primer used in the method of the invention

XX

SQ Sequence 14 BP; 4 A; 3 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 52.0%; Score 10.4; DB 1; Length 14;

Best Local Similarity 91.7%; Pred. No. 25;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 6 TGTCACATGGA 17

Db 12 TGGTCACATGCA 1

RESULT 37

AAT36745/C

ID AAT36745 standard; DNA; 14 BP.

XX

AC AAT36745;

XX

DT 22-APR-1997 (first entry)

XX

DE Antisense oligonucleotide to cdk4 gene.

XX

KW Antisense; phosphorylation; retinoblastoma; tumour suppressor; ribozyme;

XX

KW antagonist; kinase; cyclin; cdk4; Rb; sB.

XX

OS Synthetic.

XX

PN DE19539130-A1.

XX

PD 29-AUG-1996.

XX

PF 20-OCT-1995; 95DE-01039130.

XX

PR 28-FEB-1995; 95DE-01008734.

(PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.

XX

PI Strauss M, Bartek J, Lukas J, Sandig V;

XX

DR WPI; 1996-394264/40.

XX

PT Compns. for treating tumour or other hyperplasias - contg. co-operative gene, antisense or ribozyme against kinase or cyclin or other inhibitor of Rb phosphorylation.

XX

PS Claim 12; Page 4; Tpp; German.

XX

The oligonucleotides AAT36744-50 represent antisense oligonucleotides targeted to genes encoding proteins that interact with, pref. by phosphorylating the retinoblastoma (Rb) protein. The oligonucleotides are used in a novel method of treating tumours by using: (a) tumour suppressor genes that co-operate with the Rb suppressor, (b) antisense or ribozymes that are antagonistic to kinases or cyclins, or (c) other compounds that inhibit Rb phosphorylation. This oligonucleotide is directed to the cyclin-dependent kinase cdk4 gene.

XX

SQ Sequence 14 BP; 3 A; 6 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 50.0%; Score 10; DB 1; Length 14;

Best Local Similarity 100.0%; Pred. No. 29;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 GGTCACATGG 16

Db 14 GGTCACATGG 5

RESULT 39

AAB45285/C

ID AAB45285 standard; DNA; 13 BP.

XX

AC AAB45285;

XX

DT 22-FEB-2002 (first entry)

XX

DE Oligonucleotide SEQ ID NO 245262 for detecting SNP TSC0059887.

XX

KW SNP; single nucleotide polymorphism; human; diagnosis; DNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX

RESULT 38

AAB89017/C

ID AAB89017 standard; DNA; 14 BP.

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX WO200177384-A2.  
 XX PD 18-OCT-2001.  
 XX PT 06-APR-2001; 2001WO-IB000713.  
 XX PR 07-APR-2000; 2000DE-01019173.  
 XX PA (EPIC-) EPIGENOMICS AG.  
 XX PT Olek A, Piepenbrock C, Berlin K;  
 XX DR WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.  
 XX PS Claim 1; SEQ ID NO 245261; 29pp + Sequence Listing; German.  
 XX CC This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 -ABC9989, ABF0010-ABF9989, ABH0010-ABH9989 and ABT0010-ABT9989 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at [ftp://wipo.int/pub/published\\_pct\\_sequences](ftp://wipo.int/pub/published_pct_sequences).  
 XX SQ Sequence 13 BP; 4 A; 5 C; 1 G; 3 T; 0 U; 0 Other;  
 XX Query Match 49.0%; Score 9.8; DB 1; Length 13;  
 XX Best Local Similarity 84.6%; Pred. No. 27;  
 XX Matches 11; Conservatve 0; Mismatches 2; Indels 0; Gaps 0;  
 XX OY 6 TGCTCACATGGAT 18  
 XX Db 13 TGGTAACGTGGAT 1  
 XX RESULT 41  
 XX ABH28185/c  
 XX ID ABH28185 standard; DNA; 13 BP.  
 XX AC ABH28185;  
 XX DT 22-FEB-2002 (first entry)  
 XX DE Oligonucleotide SEQ ID NO 228162 for detecting SNP TSC0055641.  
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; <sup>ss</sup>;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX OS Homo sapiens.  
 XX PN WO200177384-A2.  
 XX PD 18-OCT-2001.  
 XX PP 06-APR-2001; 2001WO-IB000713.  
 XX PR 07-APR-2000; 2000DE-01019173.  
 XX PA (EPIC-) EPIGENOMICS AG.  
 XX PT Olek A, Piepenbrock C, Berlin K;  
 XX DR WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.  
 XX PS Claim 1; SEQ ID NO 228162; 29pp + Sequence Listing; German.  
 XX CC This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a CC range of diseases including immune system, gastrointestinal, respiratory, CC central nervous system, cardiovascular and metabolic disorders. The CC oligomers are also used for detecting cell type differentiation. ABC0010 ABC9989, ABP0010-ABP9989, ABP0010-ABH9989 and ABT0010-ABI2073 represent the oligomers described in the invention. Note: The sequence CC data for this patent did not form part of the printed specification, but CC was obtained in electronic format from WIPO at CC ftp.wipo.int/pub/published\_pct\_sequences

SQ Sequence 13 BP; 4 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 49.0%; Score 9.8; DB 1; Length 13; Best Local Similarity 84.6%; Pred. No. 27; Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Best Local Similarity 84.6%; Pred. No. 27; Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 8 GTCACATGGATGA 20

Db 1 GTCACATGGATGA 13

RESULT 42

ABH28184

ID ABH28184 standard; DNA; 13 BP.

XX

AC ABH28184;

XX

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 228161 for detecting SNP TSC0055641.

XX

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; BB; central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX

OS Homo sapiens.

XX

PN WO200177384-A2.

XX

PD 18-OCT-2001.

XX

PP 06-APR-2001; 2001WO-1B000713.

XX

PR 07-APR-2000; 2000DE-01019173.

XX

PA (EPIG-) EPIGENOMICS AG.

XX

PT Olek A, Piepenbrock C, Berlin K;

XX

DR WPI; 2001-657177/75.

XX

Set of oligonucleotides, useful for diagnosis and cell typing, is PT designed to detect single-nucleotide polymorphisms and cytosine PT methylation status.

PS Claim 1; SEQ ID NO 228161; 29pp + Sequence Listing; German.

XX

This invention describes novel oligonucleotide primers or peptide nucleic CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) CC and cytosine methylation status in chemically pretreated genomic DNA. The CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a CC range of diseases including immune system, gastrointestinal, respiratory, CC central nervous system, cardiovascular and metabolic disorders. The CC oligomers are also used for detecting cell type differentiation. ABC0010 ABC9989, ABP0010-ABP9989, ABP0010-ABH9989 and ABT0010-ABI2073 represent the oligomers described in the invention. Note: The sequence CC data for this patent did not form part of the printed specification, but CC was obtained in electronic format from WIPO at CC ftp.wipo.int/pub/published\_pct\_sequences

SQ Sequence 13 BP; 3 A; 1 C; 5 G; 4 T; 0 U; 0 Other;

XX

RESULT 43

AAN7053/c

ID AAN7053 standard; DNA; 14 BP.

XX

AC AAN7053;

XX

DT 25-MAR-2003 (revised)

DT 29-APR-1991 (first entry)

DE Sequence of probe which corresponds to the AA sequence W-N-Y-L-D (515-519) of human tissue plasminogen activator (TPA).

XX

KW Thrombolytic; enzyme; protease; BB.

XX

OS Homo sapiens.

XX

PN EP211260-A.

XX

PD 25-FEB-1987.

XX

PP 09-JUL-1986; 86EP-00109385.

XX

PR 10-JUL-1985; 85JP-00152810.

PR 31-JAN-1986; 86JP-00020469.

PR 26-APR-1986; 86JP-00097481.

XX

PA (KANF-) KANEKA FUCHI KAGAKU KOGYO KK.

XX

PT Kakutani T, Matsumoto K, Yahara H, Maruyama H, Kawahara H;

PI Watanabe K;

XX

DR WPI; 1987-051507/08.

XX

PT New chromosomal DNA coding for human tissue plasminogen activator - large PT useful in expression vector for high yield prodn. of activator by large scale suspension culture.

XX

PS Example; p29; 70pp; English.

XX

The probe is used in an example to exemplify the cloning of TPA gene. CC (Updated on 25-MAR-2003 to correct PA field.)

XX

SQ Sequence 14 BP; 4 A; 4 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 49.0%; Score 9.8; DB 1; Length 14; Best Local Similarity 84.6%; Pred. No. 31; Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Best Local Similarity 84.6%; Pred. No. 31; Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 3 TCATGGCACATG 15

Db 14 TCACGGTGCATG 2

RESULT 44

AX19072/c

ID AX19072 standard; DNA; 13 BP.

XX

AC AX19072;

XX

DT 13-MAY-1999 (first entry)

XX

DE Human PPAR-gamma-3-E-box SEQ ID NO:41.

XX

KW Human; peroxisome proliferator activated receptor gamma; PPAR-gamma;  
 KW regulatory sequence; promoter; obesity; anorexia; lipoma; cachexia;  
 KW lipodystrophy; liposarcoma; human immunodeficiency virus; HIV;  
 KW insulin resistance; non-insulin-dependent diabetes mellitus;  
 KW inflammatory bowel disease; ulcerative colitis; bowel cancer; BB.  
 XX OS Homo sapiens.  
 PN WO905161-A1.  
 XX PD 04-FEB-1999.  
 XX PP 24-JUL-1998; 98WO-US015411.  
 XX PR 25-JUL-1997; 97US-0053692P.  
 XX PA ((LIGA-) LIGAND PHARM INC.  
 PA (INSP-) INST PASTER.  
 XX PT BRIGGS MR, Saladin RS, Auwerx J, Fajas L;  
 XX DR XX WPI; 1999-142844/12.  
 PT Newly isolated nucleic acid comprising a control region of a human  
 PT peroxisome proliferator activated receptor (PPAR) gamma gene - useful for  
 PT identifying modulators that are useful in treating diseases associated  
 PT with abnormal levels of human PPAR-gamma gene expression.  
 XX PS disclosure; Page 91; 102pp; English.  
 XX CC The present invention describes an isolated, purified or enriched nucleic  
 CC acid comprising a control region of a human peroxisome proliferator  
 CC activated receptor gamma (PPAR-gamma) gene. The nucleic acids are useful  
 CC for screening for agents capable of modulating the expression of a human  
 CC PPAR-gamma gene. These agents (modulators) form pharmaceutical  
 CC compositions that are useful for treating diseases associated with  
 CC high/low levels of human PPAR-gamma gene expression. The diseases include  
 CC obesity, anorexia, cachexia, lipodystrophy, lipomas, liposarcomas,  
 CC abnormalities associated with anti-human immunodeficiency virus (HIV)  
 CC treatment, insulin resistance, non-insulin-dependent diabetes mellitus<sup>B</sup> (NIDDM),  
 CC polycystic ovarian syndrome, diseases of the gastrointestinal (GI)  
 CC tract, inflammatory bowel disease, Crohn's disease, ulcerative colitis  
 CC and bowel cancer. The nucleic acids are useful for studying the role of  
 CC the PPAR-gamma gene in various diseases and disorders. The structure of  
 CC PPAR-gamma enables genetic studies of PPAR-gamma mutations in humans,  
 CC and evaluation of its role in disorders like insulin resistance, NIDDM,  
 CC and diseases associated with altered adipose tissue function, like  
 CC obesity and lipodystrophic syndromes. The nucleic acids are also useful  
 CC for gene therapy and the production of transgenic animals, which are  
 CC useful in screening assays. The control regions of the nucleic acids  
 CC enable screening for modulators of the human PPAR-gamma gene, which are  
 CC useful in designing drugs for treating disorders or diseases associated  
 CC with the level of PPAR-gamma gene expression. The present sequence  
 CC represents the human PPAR-gamma-3'-R-box.  
 XX SQ Sequence 13 BP; 4 A; 2 C; 2 G; 5 T; 0 U; 0 Other;  
 Query Match 47.0%; Score 9.4; DB 1; Length 13;  
 Best Local Similarity 90.9%; Pred. No. 31;  
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 8 GTCACATGAT 18  
 Db 11 GTCACATGAT 1

DT 16-JUN-2005 (first entry)  
 XX DE Human SNP detection related oligonucleotide #1689.  
 XX PR 07-APR-2005.  
 XX PT 30-SEP-2004; 2004WO-JP014784.  
 XX PR 28-MAY-2004; 2004JP-00158717.  
 XX PA (RIKEN-) RIKEN KK.  
 PA (STAG-) STAGEN CO LTD.  
 PA (SEKI-) SEKI A.  
 PA (IIDA-) IIDA A.  
 PA (SAIT-) SAITO S.  
 XX PI Sekine A, Iida A, Saito S, Nakamura Y, Kanatani N;  
 XX DR WPI; 2005-30935/31.  
 XX PS Analyzing haplotype, by detecting polymorphism in drug-related genes,  
 PT selecting common polymorphism (CP), building haplotype block using CP,  
 PT specifying CP within block, specifying tag polymorphism from CP within  
 PT block.  
 XX Disclosure; SEQ ID NO 1689; 1290pp; Japanese.  
 CC The invention relates to a method of analyzing haplotype, by detecting  
 CC gene polymorphism in drug-related genes such as aryl acetylamide  
 CC deacetylase, arylalkylamine N-acetyl transferase or ATP-binding cassette,  
 CC sub-family A (ABC1), member 1. The method is useful for analyzing  
 CC haplotype. The method is useful for estimating the sensitivity or disease  
 CC of a medicine or a foreign material, for selecting the medicine for  
 CC preventing or treating diseases, for determining appropriate dosage of  
 CC medicine for preventing or treating a disease, for analyzing a drug  
 CC interaction, and for determining the related polymorphism relative to the  
 CC sensitivity of the medicine, foreign material or disease. The diseases  
 CC include malignant tumor, immune disorder, circulatory disease, metabolic  
 CC disease, kidney disease, respiratory disease and muscle associated  
 CC disease. The method enables analysis of the individual differences  
 CC related to the sensitivity of a medicine, using a haplotype, without  
 CC using each single nucleotide polymorphism. The present sequence  
 CC represents a human SNP detection related oligonucleotide.  
 XX SQ Sequence 13 BP; 2 A; 5 C; 3 G; 3 T; 0 U; 0 Other;  
 Query Match 47.0%; Score 9.4; DB 1; Length 13;  
 Best Local Similarity 90.9%; Pred. No. 31;  
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTCA 11  
 Db 2 CCTCATGGTCA 12

RESULT 45  
 AEDB6939  
 ID AEDB6939 standard; DNA; 13 BP.  
 XX AC AEDB6939;  
 XX DT 12-JAN-2006 (first entry)

DB	3	TCTAGGTCATA 13
XX	XX	Polyamide-binding target oligonucleotide I, SEQ ID NO:12.
KW	OS	Gene expression; transcription factor inhibitor; DNA footprinting; ss.
XX	OS	Synthetic.
XX	FT	Key misc_binding Location/Qualifiers
XX	FT	1. .13 /tag= a
XX	FT	/bound_moiety= "Bases 13-1 of SEQ ID NO:13"
XX	FT	7. .10 /tag= b
XX	FT	/bound_moiety= "Imidazole- and pyrrole-containing dsDNA in a sequence-specific manner"
XX	FT	/note= "Polyamide chain binds to the minor groove of the dsDNA in a sequence-specific manner"
XX	PN	US6958240-B1.
XX	PD	25-OCT-2005.
XX	PP	99US-00374704.
XX	PR	26-FEB-1996; 96US-00607078.
XX	PR	20-FEB-1997; 97WO-US003332.
XX	PR	08-APR-1997; 97US-0043444P.
XX	PR	16-APR-1997; 97US-0042022P.
XX	PR	21-APR-1997; 97US-00837524.
XX	PR	08-MAY-1997; 97US-00853522.
XX	PA	(CALLY ) CALIFORNIA INST OF TECHNOLOGY.
XX	PT	Baird EE, Dervan PB;
XX	DR	WPI; 2005-807194/82.
XX	PT	Novel polyamides comprising amino acids having N-methylpyrrole, 3-hydroxy -N-methylpyrrole and/or N-methylimidazole groups and positive patches having rigid groups adjacent to positively charged groups, useful for inhibiting gene expression.
XX	PS	Example 4; SEQ ID NO 12; 43pp; English.
XX	CC	The invention relates to a polyamide molecule which specifically binds to a predetermined site in the minor groove of a double-stranded DNA molecule in a sequence-specific manner and which contains an alpha-amino acid domain (termed the "positive patch") which contacts nucleotides in the major groove and thus inhibits the activity of major groove DNA-binding proteins. The polyamide molecule comprises one or more amino acids containing a N-methylpyrrole, 3-hydroxy-N-methylpyrrole and/or N-methylimidazole group, where one or more of these amino acid(s) are not alpha-amino acids, and a positive patch consisting of a 2 amino acid rigid group adjacent to a positively charged group (such as a positively charged amino acid). The polyamides of the invention inhibit gene expression by displacing or preventing the function of DNA-binding proteins such as transcription factors. The invention also relates to a method of inhibiting gene expression by contacting a regulatory sequence of a gene with a polyamide of the invention. The polyamide of the invention is useful for inhibiting the binding and activity of DNA-binding proteins, thus inhibiting gene expression. Sequences AED8639-ABD86940 represent the two strands of a double-stranded oligonucleotide which is capable of being bound by a polyamide of the invention. This oligonucleotide was used in DNase I footprinting in an example of the invention to determine the optimum positive patch peptide sequence for inhibition of protein binding.
XX	CC	Sequence 13 BP; 5 A; 2 C; 2 G; 4 T; 0 U; 0 Other;
SQ	CC	Query Match 47.0%; Score 9.4; DB 1; Length 13; Best Local Similarity 30.9%; Pred. No. 31; Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
CC	CC	The invention relates to a polyamide molecule which specifically binds to a predetermined site in the minor groove of a double-stranded DNA molecule in a sequence-specific manner and which contains an alpha-amino acid domain (termed the "positive patch") which contacts nucleotides in the major groove and thus inhibits the activity of major groove DNA-
CC	CC	Example 4; SEQ ID NO 13; 43pp; English.
XX	XX	RESULT 47
XX	ID	AED86940/C
XX	ID	AED86940 Standard; DNA; 13 BP.
XX	AC	AED86940;
XX	XX	12-JAN-2006 (first entry)
XX	DT	12-JAN-2006 (first entry)
XX	DE	Polyamide-binding target oligonucleotide I, SEQ ID NO:13.
XX	KW	Gene expression; transcription factor inhibitor; DNA footprinting; ss.
XX	OS	Synthetic.
XX	FT	Key misc_binding Location/Qualifiers
XX	FT	1. .13 /tag= a
XX	FT	/bound_moiety= "Bases 13-1 of SEQ ID NO:12"
XX	FT	4. .13 /tag= d
XX	FT	/bound_moiety= "Imidazole- and pyrrole-containing polyamide chain with Arg-Pro-Arg-Arg-Arg-Arg positive patch"
XX	FT	/note= "Polyamide chain binds to the minor groove of the dsDNA in a sequence-specific manner"
XX	FT	4. .10 /tag= c
XX	FT	/bound_moiety= "Imidazole- and pyrrole-containing polyamide chain with Arg-Pro-Arg positive patch"
XX	FT	/note= "Polyamide chain binds to the minor groove of the dsDNA in a sequence-specific manner"
XX	FT	4. .9 /tag= b
XX	FT	/bound_moiety= "Imidazole- and pyrrole-containing polyamide chain"
XX	FT	/note= "Polyamide chain binds to the minor groove of the dsDNA in a sequence-specific manner"
XX	PN	US6958240-B1.
XX	PD	25-OCT-2005.
XX	PP	99US-00374704.
XX	PR	26-FEB-1996; 96US-00607078.
XX	PR	08-APR-1997; 97US-0043444P.
XX	PR	16-APR-1997; 97US-0042022P.
XX	PR	21-APR-1997; 97US-00837524.
XX	PR	08-MAY-1997; 97US-00853522.
XX	PA	(CALLY ) CALIFORNIA INST OF TECHNOLOGY.
XX	PT	Baird EE, Dervan PB;
XX	DR	WPI; 2005-807194/82.
XX	PT	Novel polyamides comprising amino acids having N-methylpyrrole, 3-hydroxy -N-methylpyrrole and/or N-methylimidazole groups and positive patches having rigid groups adjacent to positively charged groups, useful for inhibiting gene expression.
XX	PS	Example 4; SEQ ID NO 13; 43pp; English.

binding proteins. The polyamide molecule comprises one or more amino acids containing a N-methylpyrrole, 3-hydroxy-N-methylpyrrole and/or N-methylimidazole group, where one or more of these amino acid(s) are not alpha-amino acids, and a positive patch consisting of a 2 amino acid rigid group adjacent to a positively charged group (such as a positively charged amino acid). The polyamides of the invention inhibit gene expression by displacing or preventing the function of DNA-binding proteins such as transcription factors. The invention also relates to a method of inhibiting gene expression by contacting a regulatory sequence of a gene with a polyamide of the invention. The polyamide of the invention is useful for inhibiting the binding and activity of DNA-binding proteins, thus inhibiting gene expression. Sequence **ASB6939-ASB6940** represents the two strands of a double-stranded oligonucleotide which is capable of being bound by a polyamide of the invention. This oligonucleotide was used in DNase I footprinting in an example of the invention to determine the optimum positive patch peptide sequence for inhibition of protein binding.

**Sequence 13 BP; 4 A; 2 C; 2 G; 5 T; 0 U; 0 Other;**

**Query Match 47.0%; Score 9; 4; DB 1; Length 13;**  
**Best Local Similarity 90.9%; Pred. No. 31;**  
**Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;**

**Qy 3 TCACTGGTCA 13**  
**Db 11 TCATGGTCA 1**

**RESULT 48**

**AAQ88597-C;**  
**ID AAQ88597 standard; DNA; 12 BP.**

**AC AAQ88597;**

**XX DT 21-DEC-1995 (first entry)**

**XX DB Human mitochondrial D-loop region DNA probe 6-10.**

**XX KW Tiling strategy; immobilised nucleic acid probe array; mitochondrial DNA; D-loop region; biological chip; hybridisation fingerprint; interrogation position; ss.**

**XX KW XQ Synthetic.**

**XX OS Synthetica.**

**XX FH Location/Qualifiers**

**FT modified\_base 12 /\*tag= a**  
**FT /note= "3' -end of probe is covalently attached to chip**  
**FT surface"**

**XX PN WO9511995-A1.**

**XX PD 04-MAY-1995.**

**XX PP 26-OCT-1994; 94WO-US012305.**

**XX PR 26-OCT-1993; 93US-00143312.**

**XX PR 02-AUG-1994; 94US-00284064.**

**(AFFY-) AFFYMAX TECHNOLOGIES NV.**

**XX PI Chee M, Cronin MT, Fodor SP, Gingeras TR, Huang XC, Hubbell EA, Lipshutz RJ, Lobban PE, Miyada CG, Morris MS, Shah N, Sheldon EL, WPL, 1995-178887/23.**

**XX PT New arrays of oligo:nucleotide probes - used for comparing known sequences with variants for detection of mutation(s) and sequencing.**

**XX Disclosure; Page 108; 223pp; English.**

**XX CC A DNA chip was prepared for analysing sequences contained in a 1.3kb**

**CC fragment of human mitochondrial DNA from the D-loop region, the most polymorphic region of human mitochondrial DNA. The chip comprised a set of 268 overlapping oligonucleotide probes (see **ASB68421-088884**) of varying length (9-14 nucleotides) with varying overlaps arranged in a 1cm x 1cm array. Each position in the sequence was represented by at least one probe (usually 2 or more). DNA was amplified from six human donors and then transcribed to give the 1.3kb RNA transcripts which were fragmented and hybridised to the chip. For each individual, a unique hybridisation fingerprint was produced on the chip; all differences could be correlated with differences in the cloned genomic DNA sequence**

**XX Sequence 12 BP; 2 A; 3 C; 4 G; 3 T; 0 U; 0 Other;**

**Query Match 45.0%; Score 9; DB 1; Length 12;**  
**Best Local Similarity 100.0%; Pred. No. 30;**  
**Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;**

**Qy 12 CATGGATCA 20**  
**Db 11 CATGGATCA 3**

**RESULT 49**

**AAV32269**

**ID AAV32269 standard; DNA; 12 BP.**

**AC AAV32269;**

**XX DT 18-AUG-1998 (first entry)**

**XX DE Random primed reverse transcription PCR primer 114.**

**XX KW RT-PCR; primer; amplification; reverse transcription; RNA fingerprinting; differential gene expression; ss.**

**XX OS Synthetic.**

**XX PN WO9813521-A1.**

**XX PD 02-APR-1998.**

**XX PR 26-SEP-1997; 97WO-EP005290.**

**XX PR 27-SEP-1996; 96GB-00020216.**

**XX PA (SANR-) FOND CENT SAN RAFFAELLE DEL MONTE TABOR.**

**XX PI Consalez G, Pearce R;**

**XX DR WPI; 1998-230725/20.**

**XX PT Differential screening of gene expression by reverse transcription PCR polymerase chain reaction - uses random priming with primers selected for high efficiency and selectivity by computer screening of database(s).**

**XX RS Claim 9; Page 24; 37pp; English.**

**XX CC The invention provides a method for the differential screening of gene expression by random primed reverse transcription PCR (RT-PCR). The primer sequences are generated by stimulating PCR reactions on non-redundant mammalian nucleotide sequence database entries containing at least 1,000 bp of coding region. The primers selected, such as the present one, had to meet various criteria such as having an efficiency index between 2-10, having a selectivity index higher than 1, being 12 bp long i.e. 8 C or G and 4 T or A, and each primer differed from the others in at least 5 of the 8 bases at the 3'-end. The invention claims the selected primers make it possible to use internally primed, PCR-based RNA fingerprinting for simple, exhaustive and systematic analysis of different gene expression as an advantageous alternative to differential display. The method can also be useful for isolating new coding sequences and to compare known and new genes**

**XX SQ Sequence 12 BP; 1 A; 3 C; 4 G; 3 T; 0 U; 1 Other;**

Query	6	TGGTCAATGG	16	Db	12	GGTCACCTGGTT	1
Best Local Similarity	81.0%	Score	9;	DB	1;	Length	12;
Matches	9;	Conservative	1;	Mismatches	1;	Indels	0;
Qy				Gaps	0;		
Db	2	TGGTCACTGGT	12				
RESULT	50						
ID	AHH23540	standard;	DNA;	12	BP.		
XX							
XX	AHH23540;						
AC							
XX							
DT	03-AUG-2001	(first entry)					
XX	DE	Antibacterial peptide nucleic acid oligonucleotide #49.					
XX	KW	Peptide nucleic acid; PNA; antimicrobial; antibiotic; cationic peptide;					
KW	antisense; disinfectant; ss.						
XX	OS	Synthetic.					
XX	XX						
FH	Key	Location/Qualifiers					
FT	modified_base	1					
FT		/*tag= a					
FT		/mod base= OTHER					
FT		/note= "linked to AAB99988 by 8-amino-3,6-dioxaoctanoic					
FT		acid"					
XX	XX						
PN	WO200127262-A1.						
XX	XX						
PD	19-APR-2001.						
XX	XX						
PF	13-OCT-2000;	2000WO-DK000581.					
PR	99DK0-00001488.						
PR	15-OCT-1999;	99US-0159683P.					
PA	(PANT-)	PANTHECO AS.					
XX	XX						
PT	Nielsen PE,	Schou C,	Wissenbach M;				
XX	XX						
DR	WPI;	2001-290722/30.					
XX	XX						
PT	Identifying target genes in a microorganism (e.g. <i>Escherichia coli</i> ) as a						
PT	basis for anti-infective treatment comprises selecting potential targets						
PT	known to be present and obtaining complementary (antisense) peptide						
PT	nucleic acid sequences.						
XX	XX						
PS	Example 3; Page 35; 57pp; English.						
XX	XX						
CC	The present invention describes a method of identifying target genes, for						
CC	use in anti-infective treatments, in a microorganism, involving obtaining						
CC	antisense peptide nucleic acid (PNA) sequences for potential target						
CC	genes, mixing them with the organism in culture and comparing the growth						
CC	in the presence and absence of the antisense PNA sequence, where a useful						
CC	target gene is one which results in decreased growth when blocked by the						
CC	antisense sequence. Antisense oligonucleotides are linked to cationic						
CC	peptides via a linking group for use as antimicrobial compounds, in						
CC	particular as antibiotics. The present sequence is an oligonucleotide						
CC	useful as the antisense portion of a PNA in the present invention						
XX	XX						
SQ	Sequence 12 BP; 4 A; 5 C; 2 G; 1 T; 0 U; 0 Other;						
XX	XX						
Query	44.0%	Score	8.8;	DB	1;	Length	12;
Best Local Similarity	83.3%	Pred.	No. 33;				
Matches	10;	Conservative	0;	Mismatches	2;	Indels	0;
Qy				Gaps	0;		
Db	6	TGGTCAATGG	17				
RESULT	52						
ID	AB108296	standard;	DNA;	12	BP.		
XX							
AC	AB108296;						
XX							
DT	22-FEB-2002	(first entry)					
XX	Oligonucleotide primer SEQ ID NO 308269 for detecting SNP TSC0022931.						
Qy	7	GGTCACATGGT	18				



CC	cellular element; the adenovirus major late transcription factor.
CC	typical application of the TCRE recognising oligonucleotides is
CC	inhibition of viral proliferation. See also AAQ10472-518. (Updated on 25-
CC	MAR-2003 to correct PN field.)
SQ	Sequence 12 BP; 2 A; 5 C; 4 G; 1 T; 0 U; 0 Other;
Query	7 ggtcacatgg 16
DB	12 GGTCACTGG 3
RESULT 56	
AAQ52946/ <sup>C</sup>	
ID	AAQ52946 standard; RNA; 12 BP.
XX	
AC	AAQ52946;
XX	
DT	25-MAR-2003 (revised)
DT	26-MAY-1994 (first entry)
XX	
DB	Herpes simplex virus target sequence 24.
XX	
KW	RNA; enzyme; enzymatic RNA molecule; ERM; cleave; RNA; mRNA; hnRNA;
KW	picornavirus; HIV; immunodeficiency virus; hepatitis B virus; HBV;
KW	papilloma virus; HPV; Epstein-Barr virus; EBV; TCMV; TBLV;
KW	T-cell leukaemia virus; hepatitis C virus; HCV; cytomegalovirus;
KW	influenza virus; HSV; herpes simplex virus; vector; immune response;
KW	antibody; ribozyme; viral RNA; treatment; ss.
OS	Synthetic.
XX	
PN	W09323569-A1.
XX	
PD	25-NOV-1993.
XX	
PF	29-APR-1993; 93WO-US004020.
XX	
PR	11-MAY-1992; 92US-00882689.
PR	14-MAY-1992; 92US-00882712.
PR	14-MAY-1992; 92US-00882713.
PR	14-MAY-1992; 92US-00882714.
PR	14-MAY-1992; 92US-00882823.
PR	14-MAY-1992; 92US-00882824.
PR	14-MAY-1992; 92US-00882886.
PR	14-MAY-1992; 92US-00882888.
PR	14-MAY-1992; 92US-00882889.
PR	14-MAY-1992; 92US-00882921.
PR	14-MAY-1992; 92US-00882922.
PR	14-MAY-1992; 92US-00883823.
PR	14-MAY-1992; 92US-00883849.
PR	14-MAY-1992; 92US-00884073.
PR	14-MAY-1992; 92US-00884074.
PR	14-MAY-1992; 92US-00884333.
PR	14-MAY-1992; 92US-00884422.
PR	14-MAY-1992; 92US-00884431.
PR	14-MAY-1992; 92US-00884436.
PR	14-MAY-1992; 92US-00884521.
PR	31-JUL-1992; 92US-00923738.
PR	26-AUG-1992; 92US-00935854.
PR	26-AUG-1992; 92US-00936086.
PR	18-SEP-1992; 92US-00948359.
PR	15-OCT-1992; 92US-00963322.
PR	07-DEC-1992; 92US-00987129.
PR	07-DEC-1992; 92US-00987130.
PR	07-DEC-1992; 92US-00987133.
XX	(RIBO-) RIBOZYME PHARM INC.

PI Draper KG, Dudycz LW, Mcswiggen JA, Macejak DG, Holecek JJ;  
 PT Mamone JA;  
 XX WPI: 1993-386599/48;  
 DR XX  
 PT Enzymatic RNA molecules - used to inhibit viral replication, infection  
 XX and gene expression.  
 PS XX  
 XX  
 CC The sequences (ANQ52923-Q53037) are pref. herpes simplex virus target  
 CC sequences for enzymatic RNA molecules. The RNA molecules are  
 CC complementary to a substrate binding region in the specified gene target.  
 CC They also have enzymatic activity in that they specifically cleave RNA  
 CC in the target. The ERMs interfere with viral replication and therefore  
 CC have anti-viral properties. They can be used to attenuate viruses to be  
 CC used in vaccines. (Updated on 25-MAR-2003 to correct PN field.) (Updated  
 CC on 25-MAR-2003 to correct PR field.) (Updated on 25-MAR-2003 to correct  
 CC PR field.)  
 XX  
 SQ Sequence 12 BP; 2 A; 4 C; 4 G; 0 T; 2 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 3 TCATGGTCAC 12  
 Db 12 TCATGGCCAC 3

RESULT 57  
 AAZ5958/c  
 ID AAZ5958 standard; DNA; 12 BP.  
 XX  
 AC AAZ5958;  
 XX  
 DT 19-APR-2000 (first entry)  
 DB Adenovirus Ad5 major late promoter (MLP) upstream promoter element (UPSE).  
 XX  
 KW Major late promoter; MLP; mutation; upstream promoter element; UPSE;  
 KW recombinant adenovirus; E1 region deficiency; gene therapy;  
 KW replication incompetent; ds.  
 OS  
 XX  
 OS Mastadenovirus.  
 XX  
 PN WO200006628-A1.  
 XX  
 PD 06-JAN-2000.  
 XX  
 PP 24-JUN-1999; 99WO-US014333.  
 XX  
 PR 26-JUN-1998; 98US-00105515.  
 XX  
 PR (GENV-) GENVEC INC.  
 XX  
 PR Brough DR, Kovesdi I;  
 XX  
 DR WPI; 2000-147271-13.  
 XX  
 PT Novel replication-defective adenoviruses with a mutated major late  
 PT promoter used to study viral molecular genetics and as viral vectors for  
 PT genetic transfer.  
 XX  
 PS Disclosure; Page 18; 23pp; English.

The invention relates to a recombinant adenovirus comprising a genome  
 CC with a deficiency in the E1 region and a mutation in the major late  
 CC promoter (MLP), so that the MLP is less active within a cell other than a  
 CC packaging cell. The recombinant adenoviruses are highly useful in  
 CC biological research. They can be used to study viral molecular genetics  
 CC and cytotoxicity, and to investigate the cell biology of viral growth and  
 CC

CC infection. They can also be used to investigate molecular and cellular  
 CC biology of gene expression and regulation in novel genetic backgrounds,  
 CC e.g., interaction of gene products, ability of transcription factors to  
 CC transregulate gene expression via promoter, or enhancer elements  
 CC engineered into the adenovirus. The adenoviruses are also useful as gene  
 CC transfer vehicles, e.g., to introduce transgenes into tissues or cells,  
 CC and may thus be used as gene therapy vectors. The recombinant  
 CC adenoviruses can be grown without the presence of DNA complementary to  
 CC the wild type adenoviral MLP, substantially reducing the probability for  
 CC generating replication competent adenovirus (RCA). In addition, because  
 CC the viruses have a MLP which greatly attenuates L1-15 gene expression in  
 CC nonpermissive host cells, they are less able than first generation  
 CC vectors to express late viral gene products in a host cell. Sequences  
 CC AAZ5957-Z5960 represent promoter elements of the MLP of adenovirus  
 CC serotype 5 (Ad5). The present sequence represents the upstream promoter  
 CC element (UPSE), which is located 63 bp upstream of the transcriptional  
 CC start site

XX  
 SQ Sequence 12 BP; 2 A; 5 C; 4 G; 1 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 7 GGTGACATGG 16  
 Db 12 GGTGACATGG 3

RESULT 58  
 AA30866  
 ID AA30866 standard; DNA; 12 BP.  
 XX  
 AC AA30866;  
 XX  
 DT 19-SEP-2000 (first entry)  
 DB Fragment of a plasmid for expressing a ubiquitin monomer.  
 XX  
 KW Ubiquitin monomer; protein production; plant cell; ubiquitin promoter;  
 KW plasmid fragment; ss.  
 OS  
 XX  
 OS Unidentified.  
 PN WO20036129-A1.  
 XX  
 PD 22-JUN-2000.  
 XX  
 PP 11-DEC-1998; 98WO-SG000103.  
 XX  
 PR 11-DEC-1998; 98WO-SG000103.  
 XX  
 PA (NOLE-) INST MOLECULAR AGROBIOLOGY.  
 XX  
 PI Fang R, Wu J, Chen X;  
 XX  
 DR WPI; 2000-431604/37.

PT Production of desired protein in plants or plant cells by linking a  
 PT ubiquitin monomer coding sequence upstream of the gene encoding the  
 PT desired protein.  
 XX  
 PS Example 2; Page 20; 42pp; English.

This sequence represents a fragment of a plasmid expressing a fusion  
 CC construct encoding a fusion protein having a ubiquitin monomer linked to  
 CC a protein of interest. The invention relates to a method for enhancing  
 CC production of a desired protein in a plant or plant cell by inserting a  
 CC nucleic acid (NA) encoding a ubiquitin monomer upstream of a NA encoding  
 CC the desired protein, where the fusion construct encodes a fusion protein  
 CC and expression is not controlled by the ubiquitin promoter. The invention  
 CC also relates to a NA acid vector a NA vector able to transform a plant  
 CC cell, that comprises NA encoding a fusion protein having a ubiquitin

CC monomer linked to a protein of interest and further, where expression of the fusion construct is not under control of a ubiquitin promoter. The construct allows enhanced production of the desired protein in plants or plant cells.

SQ Sequence 12 BP; 3 A; 3 C; 4 G; 2 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 GTCACATGGA 17  
 ABI48155/C  
 ABI48155 standard; DNA; 12 BP.

XX

AC ABI48155;

XX

DT 22-FEB-2002 (first entry)

DB Oligonucleotide primer SEQ ID NO 335080 for detecting SNP TSC0038590.

XX

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX

OS Homo sapiens.

XX

PN WO200177384-A2.

XX

PR 06-APR-2001; 2001WO-IB000713.

XX

PR 07-APR-2000; 2000DE-01019173.

XX

PA (BPIG-) EPIGENOMICS AG.

XX

PI Olek A, Piepenbrock C, Berlin K;

XX

DR WPI; 2001-657177/75.

XX

PR Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.

XX

PS Claim 1; SEQ ID NO 335080; 29pp + Sequence listing; German.

XX

CC This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC0010 -ABC9989, ABF0010-ABP9989, ABH0010-ABH9989 and AB0010-AB82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences)

XX

SQ Sequence 12 BP; 6 A; 0 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 ACATGGATGA 20  
 ABI72389  
 ABI72389 standard; DNA; 12 BP.

XX

AC ABI72389;

XX

DT 22-FEB-2002 (first entry)

XX

DB Oligonucleotide primer SEQ ID NO 372362 for detecting SNP TSC0059339.

XX

Qy 11 ACATGGATGA 20

Sequence 12 BP; 4 A; 4 C; 0 G; 4 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

XX

KW SNP; single nucleotide polymorphism; human; diagnosis; RNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PR 18-OCT-2001.  
 XX  
 DE 06-APR-2001; 2001WO-1B000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PT Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PS Claim 1; SEQ ID NO 312362; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC9989, ABF00010-ABP9989, ABH00010-ABH9989 and ABT00010-ABT82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 12 BP; 5 A; 0 C; 3 G; 4 T; 0 U; 0 Other;  
 XX  
 Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37;  
 XX  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 XX  
 Oy 11 ACATGGATGA 20  
 Db 11 ATATGGATGA 2  
 XX  
 RESULT 63  
 AB104761  
 XX ID AB104761 standard; DNA; 12 BP.  
 XX  
 AC AB104761;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 304734 for detecting SNP TSC0021079.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; RNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PR 18-OCT-2001.  
 XX  
 PP 06-APR-2001; 2001WO-1B000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 304734; 29pp + Sequence Listing; German.  
 XX

CC This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, CC central nervous system, cardiovascular and metabolic disorders. The CC oligomers are also used for detecting cell type differentiation. ABC00010 -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABT00010-ABT82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at [ftp://wipo.int/pub/published\\_pct\\_sequences](ftp://wipo.int/pub/published_pct_sequences)

XX Sequence 12 BP; 4 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

SQ Query Match 42.0%; Score 8.4; DB 1; Length 12; Best Local Similarity 90.0%; Pred. No. 37; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 11 ACATGGATGA 20

Db 2 ACGTGGATGA 11

QY 11 ACATGGATGA 20

Db 1 ATATGGATGA 10

RESULT 64

ABH67680 ID ABI08303/C

XX ID ABI08303 standard; DNA; 12 BP.

AC AC ABI08303;

XX XX

DT 22-FEB-2002 (first entry)

DE DE Oligonucleotide primer SEQ ID NO 308276 for detecting SNP TSC0022938.

XX XX

DE Oligonucleotide primer SEQ ID NO 267657 for detecting SNP TSC0000420.

XX XX

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX XX

OS OS Homo sapiens.

PN PN WO200177384-A2.

XX XX

PD 18-OCT-2001.

XX XX

PF 06-APR-2001; 2001WO-1B000713.

XX XX

PR 07-APR-2000; 2000DE-01019173.

XX XX

PA (EPIG-) EPIGENOMICS AG.

XX XX

PI Olek A, Piepenbrock C, Berlin K;

XX XX

DR WPI; 2001-651717/75.

XX XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.

XX XX

PS Claim 1, SEQ ID NO 308276; 29pp + Sequence Listing; German.

XX XX

CC This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, CC central nervous system, cardiovascular and metabolic disorders. The CC oligomers are also used for detecting cell type differentiation. ABC00010 -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABT00010-ABT82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at [ftp://wipo.int/pub/published\\_pct\\_sequences](ftp://wipo.int/pub/published_pct_sequences)

XX Sequence 12 BP; 2 A; 5 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12; Best Local Similarity 90.0%; Pred. No. 37; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 11 ACATGGATGA 20

Db 12 ACGTGGATGA 3

RESULT 66

ABI29750/c

ID ABI29750 standard; DNA; 12 BP.  
 XX  
 AC ABI29750;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 329723 for detecting SNP TSC0035111.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PP  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PR 05-APR-2001; 2001WO-1B000713.  
 XX  
 PR 07-APR-2000; 2000DEB-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PT Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 329723; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP),  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC ABC9989, ABF0010-ABR9989, ABH0010-ABH9989 and ABT0010-ABT8073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 12 BP; 2 A; 3 C; 0 G; 7 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37; Mismatches 0; Indels 0; Gaps 0;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QV 11 ACATGGATGA 20  
 DB 11 AAATGGATGA 2

RESULT 67

ID AAH49257  
 XX  
 AC AAH49257 standard; DNA; 12 BP.  
 XX  
 DT 26-NOV-2001 (first entry)  
 XX  
 DE RNA-forming oligonucleotide #20.

Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37; Mismatches 0; Indels 0; Gaps 0;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QV 1 CCMCATGGTC 10  
 DB 2 CTCATGGTC 11

RESULT 68

ID AAH49256  
 XX  
 AC AAH49256 standard; DNA; 12 BP.

	Matches	9; Conservative	0; Mismatches	1; Indels	0; Gaps
QY	1	CCCTATGGTC 10			
Db	2	CTCATGGTC 11			
XX		RESULT 69			
DT		AHH49260			
XX		ID AHH49260			
DE		standard; DNA; 12 BP.			
XX					
XX		PNA-forming oligonucleotide #19.			
KW		Polyamide-oligonucleotide derivative; anticancer; antiproliferative; antiviral; hepatotropic; vasotropic; antisense inhibition; ribozyme; integrin; cell-cell adhesion; cancer; restenosis; stability; PNA; peptide nucleic acid; ss.			
XX					
OS		Synthetic.			
XX					
XX		EPI113021-A2.			
PN					
XX		DT 26-NOV-2001 (first entry)			
XX					
PD		XX			
XX		DE			
XX		PNA-forming oligonucleotide #23.			
PP		XX			
08-MAR-1995;		KW			
2001EP-00104012.		Polyamide-oligonucleotide derivative; anticancer; antiproliferative; antiviral; hepatotropic; vasotropic; antisense inhibition; ribozyme; integrin; cell-cell adhesion; cancer; restenosis; stability; PNA; peptide nucleic acid; ss.			
XX		XX			
PR		KW			
14-MAR-1994;		Polyamide-oligonucleotide derivative; anticancer; antiproliferative; antiviral; hepatotropic; vasotropic; antisense inhibition; ribozyme; integrin; cell-cell adhesion; cancer; restenosis; stability; PNA; peptide nucleic acid; ss.			
94DE-00408528.		XX			
08-MAR-1995;		OS			
95EP-00103332.		Synthetic.			
XX					
PA		XX			
(AVET ) AVENTIS PHARMA DEUT GMBH.		PN			
XX		EPI113021-A2.			
PJ		XX			
Uhlmann E, Breipohl G;		PD 04-JUL-2001.			
XX		XX			
DR		PR 08-MAR-1995;			
XX		2001EP-00104012.			
PT		XX			
New DNA-peptide nucleic acid chimeras, useful e.g. as antisense agents for treating e.g. cancer, also as diagnostic probes and primers.		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
XX		XX			
PS		PR 14-MAR-1994;			
Example 43; Page 46; 54pp; German.		94DE-00408528.			
XX		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-1994;			
CC		94DE-00408528.			
CC		XX			
CC		PT 08-MAR-1995;			
CC		95EP-00103332.			
CC		XX			
CC		PA (AVET ) AVENTIS PHARMA DEUT GMBH.			
CC		XX			
CC		PR 14-MAR-199			

CC oncogene, also, when used as primers, with the PNA segment at the 5'-end, CC they produce amplicons resistant to 5'-exonuclease, allowing this enzyme CC to be used to eliminate RNA or DNA primers. The DNA component allows CC additional reactions not possible with PNA alone, e.g. 3'-tailing and (1) CC may be incorporated into a gene. AAH49208-AAH49264 represent XX oligonucleotides used to illustrate the method of the invention

SQ

Sequence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12; Best Local Similarity 90.0%; Pred. No. 37; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0; OY 1 CCTCTCATGGTC 10 DB 2 CATCATGGTC 11

RESULT 70

SQ

AAH49261

ID AAH49261 standard; DNA; 12 BP.

XX

AAH49261;

AC

DT 26-NOV-2001 (first entry)

DB

PNA-forming oligonucleotide #24.

XX

Polyamide-oligonucleotide derivative; anticancer; antiproliferative; KW antiviral; hepatotropic; vasotrophic; antisense inhibition; ribozyme; KW integrin; cell-cell adhesion; cancer; restenosis; stability; PNA; KW peptide nucleic acid; ss. OS Synthetic.

PN

EP1111021-A2.

XX

04-JUL-2001.

PD

08-MAR-1995; 2001EP-00104012.

PP

14-MAR-1994; 94DE-04408528.

PR

08-MAR-1995; 95EP-00103332.

XX

(AVET ) AVENTIS PHARMA DEUT GMBH.

PA

XX

PT

Uhlmann E, Breipohl G;

XX

DR

WPI; 2001-591267/67.

XX

New DNA-peptide nucleic acid chimeras, useful e.g. as antisense agents

PT

for treating e.g. cancer, also as diagnostic probes and primerB.

XX

Example 43; Page 46; 54pp; German.

XX

04-JUL-2001.

PD

08-MAR-1995; 2001EP-00104012.

PP

14-MAR-1994; 94DE-04408528.

PR

08-MAR-1995; 95EP-00103332.

XX

(AVET ) AVENTIS PHARMA DEUT GMBH.

PA

XX

Uhlmann E, Breipohl G;

XX

WPI; 2001-591267/67.

XX

This invention describes novel polyamide-oligonucleotide derivatives (I) and their physiologically acceptable salts of formula  $F((DNA-Li)_{q}(PNA-Li)_{r}(DNA-Li)_{s}(PNA-Li)_{t})_{x}F'$  where q, r, s, t = 0 or 1, with the sum of two or more adjacent letters at least 2; x = 1-20; DNA = nucleic acid (such as DNA or RNA or their known derivatives); Li = covalent linkage between DNA and PNA, i.e. a bond or a residue containing at least one atom of carbon, nitrogen, oxygen or sulfur; PNA = polyamide structure containing at least one nucleobase different from thymine; and F, F' = end groups and/or are connected through a covalent bond. The products of the invention have anticancer, antiproliferative, antiviral, hepatotropic and vasotropic activity and can be used for the inhibition of gene expression by antisense, ribozyme, sense, or triple-helix methods, or by binding to proteins (aptamers). (I) are used for treating diseases caused by viruses (human immune deficiency, herpes simplex, influenza, vesicular stomatitis, hepatitis B or papilloma), or mediated by integrins or cell-cell adhesion reactions, for treating cancer, or for inhibiting restenosis, particularly as antisense reagents. They are also useful in heterogeneous or homogeneous assays, as primers or probes, particularly

CC where the target is amplified before being detected by hybridization, for CC diagnosis of genetic, malignant or pathogen-related diseases. (I) retain CC the increased affinity for complementary strands and better stability in CC the serum, associated with conventional peptide nucleic acids (PNA), but lack CC the disadvantages, i.e. have improved cellular uptake, do not aggregate CC in aqueous solution, and have reduced affinity for purification CC materials, reduced cytotoxicity, better sequence specificity. They are CC more active than either DNA or PNA oligomers. When used as probes, (I) CC show different responses to base-pair mismatches in the DNA and PNA CC segments, allowing better discrimination between pathogenic and non- CC oncogene, also, when used as primers, with the PNA segment at the 5'-end, CC they produce amplicons resistant to 5'-exonuclease, allowing this enzyme CC to be used to eliminate RNA or DNA primers. The DNA component allows CC additional reactions not possible with PNA alone, e.g. 3'-tailing and (I) CC may be incorporated into a gene. AAH49208-AAH49264 represent XX oligonucleotides used to illustrate the method of the invention

SQ

AAH49259

ID AAH49259 standard; DNA; 12 BP.

XX

AAH49259;

AC

DT 26-NOV-2001 (first entry)

DB

PNA-forming oligonucleotide #22.

XX

Polyamide-oligonucleotide derivative; anticancer; antiproliferative; KW antiviral; hepatotropic; vasotrophic; antisense inhibition; ribozyme; KW integrin; cell-cell adhesion; cancer; restenosis; stability; PNA; KW peptide nucleic acid; ss. OS Synthetic.

PN

EP1111021-A2.

XX

04-JUL-2001.

PD

08-MAR-1995; 2001EP-00104012.

PP

14-MAR-1994; 94DE-04408528.

PR

08-MAR-1995; 95EP-00103332.

XX

(AVET ) AVENTIS PHARMA DEUT GMBH.

PA

XX

Uhlmann E, Breipohl G;

XX

WPI; 2001-591267/67.

XX

New DNA-peptide nucleic acid chimeras, useful e.g. as antisense agents

PT

for treating e.g. cancer, also as diagnostic probes and primers.

XX

Example 43; Page 46; 54pp; German.

XX

This invention describes novel polyamide-oligonucleotide derivatives (I) and their physiologically acceptable salts of formula  $F((DNA-Li)_{q}(PNA-Li)_{r}(DNA-Li)_{s}(PNA-Li)_{t})_{x}F'$  where q, r, s, t = 0 or 1, with the sum of two or more adjacent letters at least 2; x = 1-20; DNA = nucleic acid (such as DNA or RNA or their known derivatives); Li = covalent linkage between DNA and PNA, i.e. a bond or a residue containing at least one atom of carbon, nitrogen, oxygen or sulfur; PNA = polyamide structure

CC where the target is amplified before being detected by hybridization, for CC diagnosis of genetic, malignant or pathogen-related diseases. (I) retain CC the increased affinity for complementary strands and better stability in CC the serum, associated with conventional peptide nucleic acids (PNA), but lack CC the disadvantages, i.e. have improved cellular uptake, do not aggregate CC in aqueous solution, and have reduced affinity for purification CC materials, reduced cytotoxicity, better sequence specificity. They are CC more active than either DNA or PNA oligomers. When used as probes, (I) CC show different responses to base-pair mismatches in the DNA and PNA CC segments, allowing better discrimination between pathogenic and non- CC oncogene, also, when used as primers, with the PNA segment at the 5'-end, CC they produce amplicons resistant to 5'-exonuclease, allowing this enzyme CC to be used to eliminate RNA or DNA primers. The DNA component allows CC additional reactions not possible with PNA alone, e.g. 3'-tailing and (I) CC may be incorporated into a gene. AAH49208-AAH49264 represent XX oligonucleotides used to illustrate the method of the invention



PR 11-APR-2000; 2000US-00547735.  
 PR XX  
 PA (COGB-) COGENT NEUROSCIENCE INC.  
 XX  
 PI Thomas MB, Portbury SD, Puranam K, Katz LC, Lo DC, Barney S;  
 XX DR WPI; 2002-025874/03.  
 PT New protective sequences and their products, useful for diagnosing and  
 PT treating diseases involving cell death, including neurological disorders  
 PT e.g. stroke and for identifying modulators of expression of the  
 PT protective sequences.  
 XX  
 PS Claim 2; Fig 5; 283pp; English.  
 XX  
 CC The present invention relates to protective sequence proteins (ABA44624-  
 CC ABA44810) and their coding sequences (ABA2701-ABA8937). The sequences,  
 CC when introduced into a cell either predisposed to undergo cell death or  
 CC in the process of undergoing cell death, prevent, delay or rescue the  
 CC cell from death, hence, these sequences are named "protective sequences".  
 CC The sequences are useful for treating and/or ameliorating cancer,  
 CC autoimmune diseases and neurological disorders e.g. stroke. Further  
 CC examples of diseases which may be treated by the present invention are  
 XX given in the specification  
 SQ Sequence 12 BP; 4 A; 2 C; 3 G; 3 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 2 CTCATGGCA 11  
 Db 11 CACATGGCA 2  
 RESULT 74  
 ABK72560 ID ABK0132/c  
 ID ABK72560 standard; DNA; 12 BP.  
 XX  
 AC ABK72560;  
 AC ABK72560;  
 XX DT 29-AUG-2003 (revised)  
 DT 03-JUL-2002 (first entry)  
 DE HIV-1 rev oligonucleotide #5.  
 DE HIV-1 rev oligonucleotide #5.  
 KW Selenoprotein; HIV; Ebola virus; cancer; immune system disorder; ss.  
 KW Selenoprotein; HIV; Ebola virus; cancer; immune system disorder; ss.  
 XX OS Human immunodeficiency virus 1.  
 XX PN US6302295-B1.  
 XX PD 16-OCT-2001.  
 XX PF 12-JUL-1996; 96US-00679493.  
 XX PR 14-JUL-1995; 95US-0001203P.  
 PR 01-SEP-1995; 95US-0003112P.  
 XX PA (UYGB-) UNTV GEORGIA RES FOUND INC.  
 XX PI Taylor EW, Nadimpalli RG, Ramanathan CS;  
 XX DR WPI; 2002-024731/03.  
 XX  
 PS New selenoprotein for use in detecting certain viruses, e.g. human  
 PT immunodeficiency virus (HIV) or Ebola, cancer and immune system  
 PT disorders.  
 XX  
 PS Disclosure; Col 26; 140pp; English.  
 XX  
 CC The present invention relates to selenoproteins encoded in the genome of  
 CC a virus, where the coding sequence of the selenoprotein is genetically  
 CC engineered for expression in a nucleic acid construct. The invention also  
 CC discloses a method for identifying selenoprotein coding sequences for  
 CC detecting certain viruses (e.g. HIV or Ebola), cancer and immune system  
 CC disorders. The present sequence was used to illustrate the invention.  
 CC (Updated on 29-AUG-2003 to standardise OS field)  
 XX Sequence 12 BP; 4 A; 3 C; 3 G; 0 T; 2 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 2 CTCATGGCA 11  
 CC The invention relates to an isolated human normal or mutant OPAL (the

Db	11	CTCAGGGTCA 2
		XX
		DT 16-APR-2002 (first entry)
		XX
		DE Peptide nucleic acid SEQ ID NO: 50.
		XX
		KW Peptide nucleic acid; PNA; polyamide backbone; phosphoryl radical;
		KW cytostatic; virucide; dermatological; antiasthmatic; cancer; antisense;
		KW viral infection; vitiligo; pigmentation disorder; asthma; ss.
		XX
		AC AAK98610;
		XX
		DT 16-APR-2002 (first entry)
		XX
		DE Modified peptide nucleic acid #1.
		XX
		KW peptide nucleic acid; PNA; polyamide backbone; phosphoryl radical;
		KW cytostatic; virucide; dermatological; antiasthmatic; cancer; antisense;
		KW viral infection; vitiligo; pigmentation disorder; asthma; ss.
		XX
		OS Synthetic.
		XX
		FT Key location/Qualifiers
		FH 1
		FT /*tag= a
		FT /mod_base= OTHER
		FT /note= "modified by phosphate and N-(2-
		FT hydroxyethyl)glycine" 12
		FT /*tag= b
		FT /mod_base= OTHER
		FT /note= "modified by hex"
		XX
		PN WO200179249-A2.
		XX
		FT 25-OCT-2001.
		FT 07-APR-2001; 2001WO-EP004027.
		XX
		PR 18-APR-2000; 2000DE-01019136.
		XX
		PT Uhlmann B, Breipohl G, Will DW;
		DR WPI; 2002-089643/12.
		XX
		PS Disclosure; Page 91; 96pp; German.
		XX
		CC New peptide nucleic acid derivatives, useful e.g. for treating tumors and
		CC diagnosis, have N-terminal phosphoryl residue for improving e.g.
		PT solubility in water.
		XX
		CC The present invention relates to peptide nucleic acid (PNA) derivatives.
		CC These can be used in the treatment of cancer, viral infections, vitiligo
		CC or other pigmentation disorders, and asthma. The present sequence is an
		CC oligonucleotide fragment of a PNA described in the exemplification of the
		CC invention
		XX
		SQ Sequence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
		XX
		Query Match 42.0%; Score 8.4; DB 1; Length 12;
		PA Best Local Similarity 90.0%; Pred. No. 37;
		XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
		CC
	QY	1 CCTCATGGTC 10
	Db	2 CATCATGGTC 11
		XX
		PS Example 3; Page 38; 96pp; German.
		XX
		CC The present invention relates to peptide nucleic acid (PNA) derivatives.
		CC These can be used in the treatment of cancer, viral infections, vitiligo
		CC or other pigmentation disorders, and asthma. The present sequence is an
		CC oligonucleotide fragment of a PNA described in the exemplification of the
		CC invention
		XX
		Query Match 42.0%; Score 8.4; DB 1; Length 12;
		PA Best Local Similarity 90.0%; Pred. No. 37;
		XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
		CC
	QY	1 CCTCATGGTC 10
	Db	2 CATCATGGTC 11
		XX
		SQ Sequence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
		XX
		RESULT 78
		ADM56294C
		ID ADM56294 standard; DNA; 12 BP.
		XX
		AC ADM56294;
		XX
		DT 03-JUN-2004 (first entry)
		XX
		DR Mouse SLC26A6 anion transporter protein gene splice site #13.
		XX
		KW SLC26A6; SLC26A1; SLC26A2; anion transporter protein; cancer;
		KW splice site; db; mouse; murine.
		XX
		OS Mus musculus.
		XX
		PN WO2003072759-A2.
		XX
		PD 04-SEP-2003.
		XX
		PF 28-FEB-2003; 2003WO-US006469.
		XX
		PR 28-FEB-2002; 2002US-0360275P.
		XX
		PA (UYCA-) UNIV VANDERBILT.
		PA (UYCA-) UNIV CASE WESTERN RESERVE.
		AC ABA97503;

PA (BWHM ) BRIGHAM & WOMENS HOSPITAL.  
 XX Mount DB, Romero MF;  
 XX WPT; 2003-712726/67.  
 XX  
 PT New SLC26A6, SLC26A1 or SLC26A2 polypeptide, useful for preparing a  
 PT composition for treating e.g., cancer.  
 PS Example 2; SEQ ID NO 26; 204pp; English.  
 XX  
 CC The invention comprises the amino acid and coding sequences of SLC26A6, CC SLC26A1 and SLC26A2 anion transporter proteins. The DNA and protein CC sequences of the invention are useful for treating cancer. The present CC DNA sequence represents a splice site from the gene encoding the mouse SLC26A6 anion transporter protein.  
 XX  
 SQ Sequence 12 BP; 3 A; 1 C; 3 G; 5 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 CC Qy 9 TCACATGGAT 18  
 Db 10 TCACATGAT 1  
 XX  
 RESULT 79  
 ADQ29955  
 ID ADQ29955 standard; DNA; 12 BP.  
 XX  
 AC ADQ29955;  
 XX  
 DT 09-SEP-2004 (first entry)  
 XX  
 DE Rat VRI exon 1d transcription factor binding fragment #41.  
 XX  
 KW ds; VR1 receptor; vanilloid receptor type 1; modulator;  
 KW pain transmission; primary sensory neuron; transcription factor;  
 KW detection; MZFL; NPKappaB; NPAT; GATA1; sensitivity disorder; analgesia;  
 KW hypalgesia; hyperalgesia; neuralgia; myalgia; rat.  
 XX  
 OS Rattus sp.  
 XX  
 PN WO2004053120-A2.  
 XX  
 PD 24-JUN-2004.  
 XX  
 PR 01-DEC-2003; 2003WO-EP013522.  
 XX  
 PR 09-DEC-2002; 2002DE-01057421.  
 XX  
 PA (CHBF ) GRUENTHAL GMBH.  
 XX  
 PT Weihe E, Boller A, Schaefer MKH;  
 XX  
 DR WPT; 2004-468868/44.  
 XX  
 PT New nucleic acid that modulates expression of the vanilloid receptor-1, PT useful for control of pain or sensitivity disorders, comprises sequences PT from control regions of the receptor gene.  
 XX  
 PS Disclosure; Page 46; 68pp; German.  
 XX  
 CC This invention describes a novel nucleic acid containing a specific CC segment having at least one region that modulates expression of the VR1 (vanilloid receptor type 1) receptor, or a functional derivative, allele CC or fragment of this region, or a sequence that hybridises to it, under standard conditions. The VR1 modulator is derived from one or more of positions 221931-22334 of GenBank AL670399, 31673-36359 of AL63116, or 44731-43231 or 36616-33151 of AP168787 and is involved in transmission of pain, particularly in primary sensory neurons. The invention also  
 XX  
 PS  
 CC describes a vector that contains the VR1 modulator, host cells containing this vector (other than human germ or embryonal stem cells) and a method CC for modulating expression of the VR1 receptor by introducing the VR1 modulator or the vector into a cell that contains the VR1 gene. The products of the invention are used for detecting a transcription factor CC from its binding to a regulatory sequence (or a double-stranded oligonucleotide fragment of it), e.g. by Western blotting or enzyme-linked immunosorbent assay, particularly for diagnosis of diseases CC associated with overexpression or underexpression of the transcription factor. The region that modulates VR1 receptor expression includes a CC binding site for a transcription factor, e.g. MZFL, NPKappaB, NFAT or GATA1. The nucleic acids of the invention, or vectors containing them, CC are used for prevention or treatment of pain, also for treating sensitivity disorders, e.g. analgesia, hypalgesia or hyperalgesia, also CC neuralgia and myalgia, that are associated with activity of the VR1 receptor. This sequence represents a fragment of rat VR1 exon 1d DNA CC which is capable of binding to a transcription factor.  
 XX  
 SQ Sequence 12 BP; 3 A; 2 C; 6 G; 1 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 37;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 CC Qy 10 CACATGGATG 19  
 Db 1 CACAGGGATG 10  
 XX  
 RESULT 80  
 ABF80873/c  
 ID ABF80873 standard; DNA; 12 BP.  
 XX  
 AC ABF80873;  
 XX  
 DT 20-APR-2006 (first entry)  
 XX  
 DB MLTF/USP promoter target DNA fragment.  
 XX  
 KW Gene expression; gene regulation; platinum zinc complex; cancer; tumor;  
 KW neoplasm; promoter; target; ds.  
 OS Unidentified.  
 XX  
 PN JP2006045131-A.  
 XX  
 PD 16-FEB-2006.  
 XX  
 PR 05-AUG-2004; 2004JP-00229182.  
 XX  
 PR 05-AUG-2004; 2004JP-00229182.  
 XX  
 PA (UTK ) UNIV TOKYO RIKA GH.  
 XX  
 PT Aoki S, Okaya R, Takeda T, Kimura E;  
 XX  
 DR WPT; 2006-150505/16.  
 XX  
 PT Novel platinum-zinc complex useful as agent for controlling expression of PT promoter sequence or RNA of specific gene for treatment of cancer.  
 XX  
 PS Example 4; Page 10; 21pp; Japanese.  
 XX  
 CC The invention relates to a novel platinum-zinc complex (C1) used in the CC regulation of gene expression. The complex of the invention is prepared CC by reacting a 2,2'-bipyridyl derivative and a cyclop derivative protected CC by t-butyloxycarbonyl (Boc), adding the platinum compound to the obtained CC complex. (C1) is useful as an agent for controlling the expression of a CC specific gene. This involves contacting (C1) with the nucleic acid CC sequence of the gene, where the nucleic acid sequence is a promoter CC sequence which controls the expression of the gene, or an RNA encoding CC the gene. The platinum complex in (C1) has increased anti-tumor activity CC with respect to solid tumors such as testicular tumors, ovarian cancer, PA (BWHM ) BRIGHAM & WOMENS HOSPITAL.

CC head and neck cancer, esophageal cancer and small cell lung carcinoma.  
CC (C1) controls the gene expression by the combination of zinc and platinum  
CC complex in its structure. The current sequence represents a promoter  
CC fragment that may act as a target for the complex of the invention.  
XX

SQ Sequence 12 BP; 2 A; 5 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; PRed. No. 37;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 GGTCACTGG 16

Db 12 GGTCACTGG 3

Search completed: June 13, 2006, 15:46:02  
Job time : 0.001 secs

GenCore version 5.1.9  
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## OM nucleic - nucleic search, using SW model

Run on: June 13, 2006, 15:44:11 ; Search time 0.001 seconds

(without alignments)  
 18.680 Million cell updates/sec

**Title:** US-10-719-370A-446  
**Perfect score:** 20  
**Sequence:** 1 cctcatgtcacatggatga 20  
**Scoring table:** .IDENTITY\_NUC  
**Gapop 10.0 , Gapext: 0.5**  
**Searched:** 36 seqs, 467 residues  
**Total number of hits satisfying chosen parameters:** 72  
**Minimum DB seq length: 12**  
**Maximum DB seq length: 50**  
**Post-processing:** Minimum Match 0%  
**Maximum Match 100%**  
**Listing first 36 summaries**  
**Database :** us-10-719-370a-446.s1.rge4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
c 1	17	85.0	20 1 CS097426	ACCESSION:CS097426
c 2	14.8	64.0	19 1 AR199401	ACCESSION:AR199401
c 3	12.8	64.0	17 1 AX732438	ACCESSION:AX732438
c 4	12.2	61.0	17 1 CO622872	ACCESSION:CO622872
c 5	12.2	61.0	17 1 AR463935	ACCESSION:AR463935
c 6	10.8	54.0	15 1 AR180445	ACCESSION:AR180445
c 7	9.4	47.0	12 1 AT1522	ACCESSION:AT1522
c 8	9.4	47.0	12 1 ST4610	ACCESSION:ST4610
c 9	9.4	47.0	13 1 AR759769	ACCESSION:AR759769
c 10	9.4	47.0	13 1 AR59770	ACCESSION:AR759770
c 11	9	45.0	12 1 AR058623	ACCESSION:AR058623
c 12	8.8	44.0	12 1 IO4322	ACCESSION:IO4322
c 13	8.4	42.0	12 1 AR024074	ACCESSION:AR024074
c 14	8.4	42.0	12 1 AR075457	ACCESSION:AR075457
c 15	8.4	42.0	12 1 AR108947	ACCESSION:AR108947
c 16	8.4	42.0	12 1 AR153908	ACCESSION:AR153908
c 17	8.4	42.0	12 1 AR172244	ACCESSION:AR172244
c 18	8.4	42.0	12 1 AR178525	ACCESSION:AR178525
c 19	8.4	42.0	12 1 BD001178	ACCESSION:BD001178
c 20	8.4	42.0	12 1 BD001607	ACCESSION:BD001607
c 21	8.4	42.0	12 1 BD064941	ACCESSION:BD064941
c 22	8.4	42.0	12 1 BD240723	ACCESSION:BD240723
c 23	8.4	42.0	12 1 BD261806	ACCESSION:BD261806
c 24	8.4	42.0	12 1 CO828540	ACCESSION:CO828540
c 25	8.4	42.0	12 1 IT7542	ACCESSION:IT7542
c 26	8.4	42.0	12 1 AR224293	ACCESSION:AR224293
c 27	8.4	42.0	12 1 AR234464	ACCESSION:AR234464
c 28	8.4	42.0	12 1 AR75829	ACCESSION:AR75829
c 29	8.4	42.0	12 1 AR8612	ACCESSION:AR8612
c 30	8.4	42.0	12 1 IT2395	ACCESSION:IT2395
c 31	8.4	42.0	12 1 AR577337	ACCESSION:AR577337
c 32	8.4	42.0	12 1 AR699868	ACCESSION:AR699868
c 33	8.4	42.0	12 1 AR699877	ACCESSION:AR699877

## ALIGNMENTS

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5-lipoxygenase gene polymorphisms and their use in classifying	source	/organism="unknown"						
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ACCESSION	AX732438	REFERENCE	1 (bases 1 to 17)
VERSION	AX732438.1	AUTHORS	Gu, Y., Ji, Y., Penn, S.G., Hanel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.
KEYWORDS	Homo sapiens (human)	TITLE	Polypeptide encoding a human myo-in-like polypeptide expressed predominantly in heart and muscle
SOURCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Euarchoptoglires; Primates; Catarhini; Homidae; Homo.	JOURNAL	Patent: US 6686108-A 7612 03-FEB-2004; Amersham PLC; Buckinghamshire; GBX;
REFERENCE	1 (bases 1 to 17)	FEATURES	Location/Qualifiers
AUTHORS	Teitelman, A., Amson, R. and Tuijndert, M.	SOURCE	1. .17
TITLE	Sequences involved in phenomena of tumour suppression, tumour revision, apoptosis and/or virus resistance and their use as medicines	FEATURES	/organism="unknown"
JOURNAL	Patent: WO 0325175-A 4072 27-MAR-2003; Molecular Engines Laboratories (FR)	SOURCE	/mol_type="genomic DNA"
FEATURES	Location/Qualifiers	FEATURES	/db_xref="taxon:9606"
source	1. .17	SOURCE	/mol_type="unassigned DNA"
RESULT 4	Query Match 64.0%; Score 12.8; DB 1; Length 17; Matches 14; Conservative 87.5%; Pred. No. 3; 3; 0; Mismatches 2; Indels 0; Gaps 0;	RESULT 6	Query Match 61.0%; Score 12.2; DB 1; Length 17; Matches 14; Conservative 82.4%; Pred. No. 4; 5; 0; Mismatches 3; Indels 0; Gaps 0;
CQ622872/c	LOCUS CQ622872 Sequence 7612 from Patent WO0192524. DEFINITION 17 bp DNA. LINEAR PAT 02-FEB-2004	LOCUS AR180445 Sequence 513 from Patent US 6333152. DEFINITION 15 bp DNA. LINEAR PAT 20-APR-2002	LOCUS AR180445 Sequence 513 from Patent US 6333152. DEFINITION 15 bp DNA. LINEAR PAT 20-APR-2002
DEFINITION	17 bp DNA. LINEAR PAT 02-FEB-2004	DEFINITION	15 bp DNA. LINEAR PAT 20-APR-2002
ACCESSION	CQ622872	ACCESSION	AR180445
VERSION	CQ622872.1	VERSION	AR180445.1
KEYWORDS	GI:41673090	KEYWORDS	GI:20222478
SOURCE	Homo sapiens (human)	SOURCE	Location/Qualifiers
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Euarchoptoglires; Primates; Catarhini; Homidae; Homo.	ORGANISM	Unknown.
REFERENCE	Gu, Y., Ji, Y., Penn, S.G., Hanel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.	REFERENCE	Unclassified.
AUTHORS	Myo-in-like gene expressed in human heart and muscle	AUTHORS	1 (bases 1 to 15)
TITLE	Patent: WO 0325254-A 7612 06-DEC-2001; Aeromica, Inc. (US)	TITLE	Vogelstein, B., Kinzler, K.W., Zhang, L. and Zhou, W.
JOURNAL	Location/Qualifiers	JOURNAL	Gene expression profiles in normal and cancer cells
FEATURES	1. .17	FEATURES	Patent: US 6333152-A 513 25-DEC-2001; Location/Qualifiers
source	/organism="Homo sapiens"	SOURCE	1. .15
RESULT 4	Query Match 54.0%; Score 10.8; DB 1; Length 15; Matches 12; Conservative 85.7%; Pred. No. 6; 8; 0; Mismatches 2; Indels 0; Gaps 0;	Query Match 54.0%; Score 10.8; DB 1; Length 15; Matches 12; Conservative 85.7%; Pred. No. 6; 8; 0; Mismatches 2; Indels 0; Gaps 0;	
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SOURCE		SOURCE	
ORGANISM		ORGANISM	
REFERENCE	unidentified	REFERENCE	unclassified sequences.
AUTHORS	unidentified	AUTHORS	1 (bases 1 to 12)
TITLE		TITLE	Pece, R. and Consalvo, G.
JOURNAL		JOURNAL	METHOD FOR THE DIFFERENTIAL SCREENING OF GENE EXPRESSION BY RANDOM PRIMED REVERSE TRANSCRIPTION-POLYMERASE CHAIN REACTION
FEATURES		FEATURES	Patent: WO 9813521-A 81 02-APR-1998; FERCE RICCARDO (IT)
source		SOURCE	Location/Qualifiers
RESULT 5	Query Match 61.0%; Score 12.2; DB 1; Length 17; Matches 14; Conservative 82.4%; Pred. No. 4; 5; 0; Mismatches 3; Indels 0; Gaps 0;	SOURCE	1. .12
LOCUS	1 CCTCATGGTCATGGA 17	FEATURES	/organism="unidentified"
DEFINITION	/db_xref="taxon:9606"	SOURCE	/mol_type="unassigned DNA"
ACCESSION	AR463935	ACCESSION	/db_xref="taxon:32644"
VERSION	AR463935.1	VERSION	
KEYWORDS	Unknown.	KEYWORDS	
SOURCE	Unclassified.	SOURCE	
ORGANISM		ORGANISM	

Best Local Similarity 90.9%; Pred. No. 8.2; Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 6 TGGTCACATGG 16  
Db 2 TGGTCACCTGG 12

RESULT 8

LOCUS S74610 12 bp mRNA linear PRI 07-MAY-1993

DEFINITION lipoprotein lipase (exon 2-exon 3 boundary) [human, mRNA Partial]

ACCESSION S74610

VERSION S74610.1 GI:241423

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Earchontoglires; Primates; Cetarrhini; Mammalia; Homo.

REFERENCE 1 (bases 1 to 12)

Gotoda,T., Yamada,N., Murase,T., Inaba,T., Ishibashi,S., Shimano,H., Koga,S., Yaraki,Y., Furuchi,Y., and Takaku,F. Occurrence of multiple aberrantly spliced mRNAs upon a donor splice site mutation that causes familial lipoprotein lipase deficiency

JOURNAL J. Biol. Chem. 266 (36), 24757-24762 (1991)

PUBLISHER Genbank staff at the National Library of Medicine created this entry [NCBI gribsg 74610] from the original journal article.

FEATURES Source

Location/Qualifiers

1. .12 /organism="Homo sapiens"

/mol\_type="mRNA"

/db\_xref="taxon:9606"

1. .12 /gene="lipoprotein lipase, LPL"

1. .12 /gene="lipoprotein lipase, LPL"

/note="contains in-frame 18-base pair deletion; LPL"

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/product="lipoprotein lipase"

/protein\_id="PAB2078.1"

/db\_xref="GI:241424"

/translation="FIVNT"

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Qy 3 TCATGGTCACA 13  
Db 2 TCATGGTCA 12

RESULT 9

LOCUS AR759769 13 bp DNA linear PAT 08-DEC-2005

DEFINITION Sequence 12 from patent US 6958240.

ACCESSION AR759769

VERSION AR759769.1 GI:83326505

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 13)

Baird,R.B. and Dervan,P.B. Inhibition of major groove DNA binding proteins by modified polyamides

JOURNAL Patent: US 6958240-A 12-25-OCT-2005; California Institute of Technology; Pasadena, CA

FEATURES Source

Location/Qualifiers

1. .13 /organism="unknown"

/mol\_type="unassigned DNA"

Query Match Best Local Similarity 90.9%; Score 9; DB 1; Length 12; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 12 CATGGATGA 20  
Db 11 CATGGATGA 3

RESULT 12

Qy 104322

RESULT 104322 Sequence 7 from Patent EP 0147819. DNA linear PAT 02-DEC-1994

DEFINITION Sequence 7 from Patent EP 0147819.

ACCESSION 104322

VERSION 104322.1 GI:591774

KEYWORDS Kung, H.-F. and Yamazaki, S.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 12)

AUTHORS Kung, H.-F. and Yamazaki, S.

TITLE Purification of recombinant interleukin-2

JOURNAL Patent: EP 0147819-A2

FEATURES 7. 10-JUL-1985; Location/Qualifiers

Qy 1. .12

Db /organism="unknown" /mol\_type="unassigned DNA"

RESULT 104322 Sequence 7 from Patent EP 0147819. DNA linear PAT 02-DEC-1994

DEFINITION Sequence 7 from Patent EP 0147819.

ACCESSION 104322

VERSION 104322.1 GI:591774

KEYWORDS Kung, H.-F. and Yamazaki, S.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 12)

AUTHORS Kung, H.-F. and Yamazaki, S.

TITLE Purification of recombinant interleukin-2

JOURNAL Patent: EP 0147819-A2

FEATURES 7. 10-JUL-1985; Location/Qualifiers

Qy 1. .12

Db /organism="unknown" /mol\_type="unassigned DNA"

Query Match Similarity 44.0%; Score 8.8; DB 1; Length 12; Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Db 1. TGTGTCACATGGA 17

Db 1. TGTGTCACATGGA 12

RESULT 13 AR024074/c AR024074 Sequence 24 from patent US 5795778. DNA linear PAT 05-DEC-1998

DEFINITION Sequence 24 from patent US 5795778.

ACCESSION AR024074

VERSION AR024074.1 GI:3977368

KEYWORDS Unknown.

ORGANISM Unassigned.

REFERENCE 1 (bases 1 to 12)

AUTHORS Draper, K.G.

TITLE Method and reagent for inhibiting herpes simplex virus replication

JOURNAL Patent: US 5795778-A

FEATURES 24. 18-AUG-1998; Location/Qualifiers

Qy 1. .12

Db /organism="unknown" /mol\_type="unassigned DNA"

Query Match Similarity 42.0%; Score 8.4; DB 1; Length 12; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1. .12

Db 1. .12

RESULT 14 AR075457/c AR075457 Sequence 10 from patent US 5958424. DNA linear PAT 30-AUG-2000

DEFINITION Sequence 10 from patent US 5958424.

ACCESSION AR075457

VERSION AR075457.1 GI:110002207

KEYWORDS Noteborn, M.H.M. and De Boer, G.F.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 12)

AUTHORS Noteborn, M.H.M. and De Boer, G.F.

TITLE Proteins encoded by chicken anemia virus DNA and diagnostic kit

JOURNAL Patent: US 6238662-A

FEATURES 10. 10-JUN-2001; Location/Qualifiers

Qy 1. .12

Db /organism="unknown" /mol\_type="unassigned DNA"

Query Match Similarity 42.0%; Score 8.4; DB 1; Length 12; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1. .12

Db 1. .12

RESULT 17 AR172244/c AR172244 Sequence 68 from patent US 6303295. DNA linear PAT 17-DEC-2001

DEFINITION Sequence 68 from patent US 6303295.

ACCESSION AR172244

VERSION AR172244.1 GI:17111735

KEYWORDS /organism="unknown" /mol\_type="unassigned DNA"

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Db 1. .12

Db 1. .12

SOURCE	Unknown.
ORGANISM	Unclassified.
REFERENCE	1. (bases 1 to 12)
AUTHORS	Taylor, B. Will., Nadimpalli, R. Gopal, and Ramanathan, C. Sekar.
TITLE	Selenoproteins, coding sequences and methods
JOURNAL	Patent: US 6303295-A 68 16-OCT-2001;
FEATURES	Location/Qualifiers
source	1. .12 /organism="unknown" /mol_type="unassigned DNA"
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Best Local Similarity	90.0%; Pred. No. 13;
Matches	9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db	11 CTCAGGGCA 2
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AR178525/c	
LOCUS	AR178525
DEFINITION	Sequence 10 from patent US 6319693.
ACCESSION	AR178525
VERSION	AR178525.1
KEYWORDS	Unknown.
ORGANISM	Unclassified.
REFERENCE	1. (bases 1 to 12)
AUTHORS	Noetbom, M. H. M. and de Boer, G. F.
TITLE	Cloning of chicken anemia virus DNA
JOURNAL	Patent: US 6319693-A 10 20-NOV-2001;
FEATURES	Location/Qualifiers
source	1. .12 /organism="unknown" /mol_type="unassigned DNA"
Query Match	42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity	90.0%; Pred. No. 13;
Matches	9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy	7 GGTGACATG 16
Db	12 GGTGACAGTG 3
RESULT 19	
BD001178/c	
LOCUS	BD001178
DEFINITION	Method and reagent for inhibiting viral replication.
ACCESSION	BD001178
VERSION	BD001178.1
KEYWORDS	JP 200342285-A/338.
ORGANISM	Synthetic construct
REFERENCE	other sequences; artificial sequences.
AUTHORS	Draper, K. G., Dadykoff, L. W., Macswigen, J. A., Maysejek, D. G., Holseck, J. J. and Mamone, A. J.
TITLE	Method and reagent for inhibiting viral replication
JOURNAL	Patent: JP 200342286-A 338 12-DEC-2000;
COMMENT	RIBOVME PHARMACEUTICALS INC
OS	Artificial Sequence
PN	JP 200342286-A/338
PD	12-DEC-2000
PP	01-MAY-2000 JP 2000132651
PR	11-MAY-1992 US 07/882689, 14-MAY-1992 US 07/882712 PR
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			DEFINITION	Replication-deficient recombinant adenovirus having mutation major late promoter.
PC	A61K39/135, A61K39/21, A61K39/23, A61K39/245, A61K39/29, A61K48/00, A61P1/16, A61P31/14, A61P31/16, A61P31/18, A61P35/12, C12Q1/68, (C12N15/09, C12R1:93)	ACCESSION	BD240723	BD240723-1 GI:33050493
PC	A61P31/16, A61P31/14, A61P31/16, A61P31/22, A61P35/12, C12Q1/68, (C12N15/09, C12R1:93)	VERSION	JP 2002519036-A/2.	
CC		KEYWORD	unidentified	
CC		SOURCE	unclassified sequences.	
FEATURES		KEY	1. .12	1 (bases 1 to 12)
source		FT	Location/Qualifiers	Brough,D.E. and Kovesci,I.
		FT	/organism="Artificial Sequence".	Replication-deficient recombinant adenovirus having mutation major late promoter.
		FT	/organism="Synthetic construct"	Patent: JP 2002519036-A 2 02-JUL-2002;
		FT	/mol_type="genomic RNA"	GENVEC INC
		FT	/db_xref="taxon:32630"	OS Human adenovirus serotype 5
Query	Match 42.0%; Score 8.4; DB 1; Length 12; Best Local Similarity 90.0%; Pred: No. 13; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	COMMENT	PR 24-JUN-1993 JP 2000557381	
Qy	3 TCATGGCAC 12	JOURNAL	PR 26-JUN-1998 US 09/105515	
Db	12 TCATGGCAC 3	FT	PI DORIUS, B BROUGH, IMRE KOVESDI	
RESULT 21		FT	PC C12N15/09, C12N5/10, C12N7/00//A61K35/76, A61K39/235, A61K48/00, C12N5/00	
BD064941/C		FT	PC C12N5/00	
LOCUS	BDD064941	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
DEFINITION	Method for detecting the extent of binding of transcriptional regulatory protein to oligoDNA.	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
ACCESSION	BDD064941	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
VERSION	BDD064941.1 GI:22610544	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
TITLE	JP 2001275678-A/153.	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
KEYWORD	Synthetic construct	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
SOURCE	Synthetic construct	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
ORGANISM	Other sequences: artificial sequences.	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
REFERENCE	1 (bases 1 to 12)	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
AUTHORS	Kishimoto,T., Niwa,S., Mori,Y., Sachiyo, Mimaki, Fukushima,R. and Nishikawa,K.	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
COMMENT	Method for detecting the extent of binding of transcriptional regulatory protein to oligoDNA.	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
OS	SUMITOMO ELECTRIC INDUSTRIES LTD	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
ARTificial Sequence	JP 2001275678-A/153	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
PN	09-OCT-2001	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
PD		FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
PF	31-OCT-2000	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
PI	2000096306	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
PT	TOSHIKOU KISHIMOTO, SHINICHIRO NIWA, YUKO MORI, SACHIYO PI MINAMI, RETI FUKUSHIMA, PI KAZUKO NISHIKAWA	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
PC	C12N15/09, C12N5/10, C12Q1/00, C12Q1/68, C12N15/00, C12N5/00 CC	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
Synthetic DNA		FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
PH		FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
KEY		FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
source	Location/Qualifiers	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
FEATURES		FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
source	1. .12	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
	/organism="Synthetic construct"	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
	/mol_type="genomic DNA"	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
	/db_xref="taxon:32630"	FT	CC Replication-deficient recombinant adenovirus having mutation major late promoter.	
Query	Match 42.0%; Score 8.4; DB 1; Length 12; Best Local Similarity 90.0%; Pred: No. 13; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	COMMENT	1 (bases 1 to 12)	
Qy	7 GGTCACTGG 16	JOURNAL	Fang,R.X., Wu,J.L. and Chen,X.Y.	
Db	12 GGTCACTGG 3	FT	Enhancement in protein production by higher plants using ubiquitin or cucumber mosaic virus coating protein peptide.	
RESULT 22		FT	Patient: JP 200253098-A 10 02-OCT-2002;	
BD240723/c		FT	INSTITUTE OF MOLECULAR AGROBIOLOGY	
LOCUS	BD240723	FT	OS Plasmid pCL	
FEATURES		FT	PN JP 200253098-A/10	
source	1. .12	FT	PD 02-OCT-2002	
	/organism="Artificial Sequence"	FT	PF 11-DEC-1998 JP 2000588378	
	/mol_type="genomic DNA"	FT	PF RONG XIANG FANG, JUNG LIN WU XIAO YING CHEN	
	/db_xref="taxon:32630"	FT	PC C12N15/09, A01H5/00, C07K14/415, C07K19/00, C12N5/10, C12N15/00, C12N5/00	
RESULT 22		FT	CC Joining region between fusion of genes.	
BD240723		FT	KEY misc_feature (1) . (12).	
LOCUS	BD240723	FT	FEATURES Location/Qualifiers	
		FT	1. .12	

/organism="unidentified"  
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 /db\_xref="taxon:32644"

RESULT 24  
 CQ828340 LOCUS AR224293/c  
 DEFINITION Sequence 24 from patent US 6440719.  
 ACCESION AR224293  
 VERSION AR224293.1 GI:23333070  
 KEYWORDS Unknown.  
 SOURCE Unknown.

REFERENCE 1 (bases 1 to 12)  
 AUTHORS Draper, K.G.  
 TITLE Method and reagent for inhibiting herpes simplex virus replication  
 JOURNAL Patent: US 6440719-A 24 AUG-2002; Ribozyme Pharmaceuticals, Inc.; Boulder, CO  
 FEATURES location/Qualifiers

SOURCE /organism="unknown"  
 /mol\_type="genomic DNA"

RESULT 25 LOCUS AR234464/c  
 DEFINITION Sequence 2 from patent US 6458578.  
 ACCESION AR234464  
 VERSION AR234464.1 GI:27277166  
 KEYWORDS Unknown.  
 SOURCE Unknown.  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 12)  
 AUTHORS Brough, D.E. and Koresdi, I.  
 TITLE Recombinant cell line produces adenoviral gene products E1 and  
 DEF-A, and/or DEF-B  
 JOURNAL Patent: US 6458578-A 2 OCT-2002; GenVec, Inc.; Gaithersburg, MD  
 FEATURES location/Qualifiers

SOURCE /organism="unidentified"  
 /mol\_type="genomic DNA"

RESULT 26 LOCUS AR224293  
 DEFINITION Sequence 24 from patent US 6440719.  
 ACCESION AR224293  
 VERSION AR224293.1 GI:23333070  
 KEYWORDS Unknown.  
 SOURCE Unknown.

REFERENCE 1 (bases 1 to 12)  
 AUTHORS Noteborn, M.H.M. and De Boer, G.P.  
 TITLE Cloning of chicken anemia DNA  
 JOURNAL Patent: US 5491073-A 10 FEB-1996;  
 FEATURES source

RESULT 27 LOCUS AR234464  
 DEFINITION Sequence 2 from patent US 6458578.  
 ACCESION AR234464  
 VERSION AR234464.1 GI:27277166  
 KEYWORDS Unknown.  
 SOURCE Unknown.  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 12)  
 AUTHORS Brough, D.E. and Koresdi, I.  
 TITLE Recombinant cell line produces adenoviral gene products E1 and  
 DEF-A, and/or DEF-B  
 JOURNAL Patent: US 6458578-A 2 OCT-2002; GenVec, Inc.; Gaithersburg, MD  
 FEATURES location/Qualifiers

SOURCE /organism="unidentified"  
 /mol\_type="genomic DNA"

RESULT 28 LOCUS AR275829  
 DEFINITION Sequence 10 from patent US 6509446.  
 ACCESION AR275829  
 VERSION AR275829.1 GI:29709474  
 KEYWORDS Unknown.  
 SOURCE Unknown.  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 12)  
 AUTHORS Noteborn, M.H.M. and De Boer, G.P.  
 TITLE Cloning of chicken anemia DNA

Query Match 42.0%; Score 84; DB 1; Length 12;  
 Best Local Similarity 90.0%; Pred. No. 13; Mismatches 1; Indels 0; Gaps 0;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 GGTCACTGG 16  
 Db 12 GGTCACTGG 3

FEATURES		JOURNAL		PATENT	
source		Leadd B.V.; Leiden; NLX;	Location/Qualifiers	AR577337	12 bp
		1..12	DEFINITION	AR577337	DNA
			ACCESSION	AR577337	Linear
			VERSION	AR577337.1	PAT 14-DEC-2004
			KEYWORDS		
			SOURCE	Unknown.	
			ORGANISM	Unknown.	
			REFERENCE	Unknown.	
			AUTHORS	Unclassified.	
			TITLE	1 (bases 1 to 12)	
			JOURNAL	Ulmann, E., Breipohl, G. and Will, D. W.	
				Polyamide nucleic acid derivatives and agents and processes for preparing them	
				Patent: US 677544-A 54 17-AUG-2004;	
				Aventis Pharma Deutschland GmbH; Frankfurt;	
			DEX;		
			FEATURES	Location/Qualifiers	
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DEFINITION	Sequence 3 from patent US 5652144.				
ACCESSION	158612				
VERSION	158612.1				
KEYWORDS	GI:2477850				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unclassified.				
AUTHORS	1 (bases 1 to 12)				
TITLE	Lu, Y. and Haseltine, W.A.				
JOURNAL	YCI gene				
Patent: US 5652144-A 3 29-JUL-1997;					
FEATURES	location/Qualifiers				
source	1..12				
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	/mol_type="unassigned DNA"				
RESULT 30					
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LOCUS	172395	12 bp	DNA	linear	PAT 03-APR-1998
DEFINITION	Sequence 26 from patent US 5683985.				
ACCESSION	172395				
VERSION	172395.1				
KEYWORDS	GI:3008534				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unclassified.				
AUTHORS	1 (bases 1 to 12)				
TITLE	Oligonucleotide decoys and methods relating thereto				
JOURNAL	Patent: US 5683985-A 26-NOV-1997;				
FEATURES	Location/Qualifiers				
source	1..12				
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RESULT 31					
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LOCUS	AR577337	12 bp	DNA	linear	PAT 14-DEC-2004
DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR577337				
VERSION	AR577337.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E., Breipohl, G. and Will, D. W.				
TITLE	Polyamide nucleic acid derivatives and agents and processes for preparing them				
JOURNAL	Patent: US 677544-A 54 17-AUG-2004;				
DEX;	Aventis Pharma Deutschland GmbH; Frankfurt;				
FEATURES	Location/Qualifiers				
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LOCUS	AR699868	12 bp	DNA	linear	PAT 14-SEP-2005
DEFINITION	Sequence 38 from patent US 6919441.				
ACCESSION	AR699868				
VERSION	AR699868.1				
KEYWORDS	GI:75205772				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unclassified.				
AUTHORS	1 (bases 1 to 12)				
TITLE	Ullmann, E. and Breipohl, G.				
JOURNAL	Polyamide-oligonucleotide derivatives, their preparation and use				
DEX;	Patent: US 6919441-A 38 19-JUL-2005;				
	Aventis Pharma Deutschland GmbH; Frankfurt;				
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ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:75205785				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unclassified.				
AUTHORS	1 (bases 1 to 12)				
TITLE	Ulmann, E. and Breipohl, G.				
JOURNAL					
DEX;					
FEATURES					
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DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
JOURNAL					
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DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
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DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
JOURNAL					
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FEATURES					
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DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
JOURNAL					
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FEATURES					
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LOCUS	AR699877	12 bp	DNA	linear	PAT 14-DEC-2004
DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
JOURNAL					
DEX;					
FEATURES					
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DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
JOURNAL					
DEX;					
FEATURES					
source					
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DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
JOURNAL					
DEX;					
FEATURES					
source					
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RESULT 41					
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DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
JOURNAL					
DEX;					
FEATURES					
source					
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DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
JOURNAL					
DEX;					
FEATURES					
source					
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LOCUS	AR699877	12 bp	DNA	linear	PAT 14-DEC-2004
DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
JOURNAL					
DEX;					
FEATURES					
source					
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RESULT 44					
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LOCUS	AR699877	12 bp	DNA	linear	PAT 14-DEC-2004
DEFINITION	Sequence 54 from patent US 677544.				
ACCESSION	AR699877				
VERSION	AR699877.1				
KEYWORDS	GI:56579871				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unknown.				
AUTHORS	Ulmann, E. and Breipohl, G.				
TITLE					
JOURNAL					
DEX;					
FEATURES					
source					
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	/mol_type="unassigned DNA"				
RESULT 45					
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LOCUS	AR699877				

TITLE Polymide-oligonucleotide derivatives, their preparation and use  
 JOURNAL Patent: US 6919441-A 48 19-JUN-2005;  
 Aventis Pharma Deutschland GmbH; Frankfurt;  
 DEX; FEATURES source

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 Matches 9; Conservative 0; Pred. No. 13; Definition 1; Indels 0; Gaps 0;  
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 Db 2 CATCATGGTC 11

RESULT 34 AR699878/C LOCUS AR699878 DEFINITION Sequence 49 from patent US 6919441. ACCESSION AR699878 VERSION AR699878.1 KEYWORDS Unknown. SOURCE Unknown. ORGANISM Unclassified. REFERENCES 1. Uhlmann, E. and Breipohl, G. TITLE Polyamide-oligonucleotide derivatives, their preparation and use JOURNAL Patent: US 6919441-A 49 19-JUN-2005; Aventis Pharma Deutschland GmbH; Frankfurt; DEX; FEATURES source

1. .12  
 /organism="unknown"  
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Query Match Best Local Similarity 90.0%; Score 8.4; DB 1; Length 12; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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 Db 11 CATCATGGTC 2

RESULT 35 AX283286 LOCUS AX283286 DEFINITION Sequence 50 from Patent WO0179249. ACCESSION AX283286 VERSION AX283286.1 KEYWORDS Unknown. SOURCE Synthetic construct. ORGANISM Other sequences; artificial sequences.

REFERENCE 1. Uhlmann, R., Breipohl, G. and Will, D.W. TITLE Polyamide nucleic acid derivatives, agents and methods for producing the same JOURNAL Patent: WO 0179249-A 50 25-OCT-2001; Aventis Pharma Deutschland GmbH (DE) FEATURES source

1. .12  
 /organism="synthetic construct"  
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 /db\_xref="taxon:32630"  
 /note="Beschreibung der kuenstlichen Sequenz: Oligonukleotide"

Query Match Best Local Similarity 90.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; Score 8.4; DB 1; Length 12;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 1 CCTCATGGTC 10  
 Db 2 CATCATGGTC 11

RESULT 36 AX711060/C LOCUS AX711060 DEFINITION Sequence 360 from Patent EP1288296. ACCESSION AX711060 VERSION AX711060.1 KEYWORDS Herpes simplex virus unknown type SOURCE Herpes simplex virus unknown type ORGANISM Viruses; dsDNA viruses; no RNA stage; Herpesviridae; Alphaherpesvirinae; Simplexvirus; unclassified Simplexvirus. REFERENCES 1. Draper, K.G., McSwiggen, J.A., Holecek, J.J., Dudycz, L.W., Macejak, P.G. and Mamone, J.A. TITLE Method and reagent for inhibiting HBV viral replication JOURNAL Patent: EP 1288296-A 360 05-MAR-2003; RIBOZYME PHARMACEUTICALS, INC. (US) FEATURES source

1. .12  
 /organism="Herpes simplex virus unknown type"  
 /mol\_type="unassigned RNA"  
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Query Match Best Local Similarity 90.0%; Score 8.4; DB 1; Length 12; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 TCGTGGCAC 12  
 Db 12 TCATGCCAC 3

Search completed: June 13, 2006, 15:44:11.  
 Job time : 0.001 sec

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